

<110> Rosen et al.

<120> 67 Human secreted proteins

<130> PZ023

<140> 09/363,044

<141> 1999-07-29

<150> 06/073,160

<151> 1998-01-30

<150> 06/073,159

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<150> 06/073,161

<151> 1998-01-30

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<151> 1998-01-30

<160> 298

<170> PatentIn Ver. 2.0

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<211> 733

<212> DNA

<213> Homo sapiens

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$\langle 210 \rangle$	7
$\langle 211 \rangle$	31
$\langle 212 \rangle$	DNA

<213> Homo sapiens

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31

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<211> 12

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<211> 73

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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256

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<211> 1079

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<213> Homo sapiens

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120

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240

300

360

420

480

540

600

660

720

780

840

900

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 <212> DNA
 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 16

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taatcttcta	ggttctaaaa	tgaagatgta	tgggtactct	ggcagactgc	atgttgtata	2520
atttgaaaaa	tactaaaagt	ggaaaataaa	attgaattaa	acttttraaaa	aaaaaaaaaa	2580
agggcgcccg	ctcgcgatct	agaactagt				2609

<210> 19

<211> 1113

<212> DNA

<213> Homo sapiens

<400> 19

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tctccagtag	tctctgagga	gccgctcgac	cttctcccga	ccctggatct	gaggcaggag	120
atgcctcccc	cgcggtgtgt	caagagcttt	ctgagcctgc	tcttccaggg	gctgagcgtg	180
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ttcctgttca	cggctgtgtc	gctgctgagc	ctctttctgt	cagcattctg	gctggggctt	300
ctgtacctgg	tctctccttt	ggagaatgaa	cctaaggaga	tgtgactct	aagtgagtac	360
cacgagcgcg	tgcgctccca	ggggcagcag	ctgcagcagc	tccaggccga	gctggataaa	420
ctccacaagg	aggtgtccac	tgttcgggca	gccaacagcg	agagagtggc	caagctcgtg	480
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aactggggcc	acccccgttt	cacgtgcttg	tatcgagtcc	gtgcccacgg	tgtgcgaacc	1020
tcagaggggg	cagagggcag	tgcacagggg	cccattaaa	catgctgatt	tttgagtaaa	1080
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaa			1113

<210> 20

<211> 947

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (555)

<223> n equals a,t,g, or c

<400> 20

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agcttttatat	tagaagatta	ttctgaagtc	ataacatttt	tttaaaaaag	taatttcaga	180
aaaaaaaaag	aatgttactg	ggataatgag	gaatgatgtc	tagctgcctg	gtgggtggca	240
tcactctgcg	tgcttatttt	agttggttgc	aggccattag	aagtcaagtt	gtctgggtcac	300
gaatgaaacg	tttacagtct	gcttcaaggc	aatcaggact	atccattccc	aggagtgaag	360
tgtctgcatt	gcatagactg	caagattgga	gtgataaatc	acacataact	ttttttatatt	420
ttttgccaa	agtttgtagg	ttcccattat	aaagccaggc	acttgattta	gaatgtgtaa	480
ggcaatcctt	tgggaatgct	ttgggatyca	gcataactct	ttgaatgaac	tggagctttg	540
tgaattncct	ttttntcctc	agatcataag	gtagaaaaaa	attcctttta	acaaaatagc	600
attccttatcc	acccaccttc	tgatccaggg	gagtacactg	ggtattgacc	tcaggaaaga	660
gaacaaggga	gtgaggggtac	aggaaatggt	aggagtgtga	gcttgaagac	aaagacgacc	720
caactggcaa	agacagcagt	tgtcaatcag	agcagatgaa	tcacacatc	agcaaatatt	780
cattatata	ctgctcaata	ataagaaaag	cttctaccaa	aggccaatgc	tcagacctc	840
tccccgaacc	tcagatttca	cttaccacc	tgcctacccc	agcaatgtac	agagcatcgc	900
ctcgtgccga	attcgatata	aagcttatcg	ataccgtcga	cctcgag		947

<210> 21

<211> 1685

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (396)

<223> n equals a,t,g, or c

<400> 21

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aagcccacat	tcttgctgtg	tcacacatg	gtttttcctc	tgtgcttgtg	cacttgtctc	120
ttcttcttat	caggacaaca	atcctattgg	tttcaggcct	gagccttata	accctattta	180
atgttaataa	cctttgtaaa	agccctatct	catatcacat	tgggggttag	agtttcaacc	240
tatgcatttt	ggggacacaa	tgtagtctat	atcaccttgc	cttatccttt	gccacttaga	300
tcacacatg	gtcgatgcct	tttcattact	caggtgttat	tctaataatca	ttccttggag	360
agttctccct	caactattgc	ttaatcacag	tgtatngtaa	ctctacagga	catgtctgac	420
cctgttcaact	catcactaaa	attactatat	acaaccagaa	ttgtgcttga	cacataataat	480
gaagcattga	gaaaacattt	gttgaataaa	tgttttcctc	taatactggg	ttatgggcat	540
aactattttct	gaatgtgtcc	tttctcaaag	gtagacacct	gagctttatg	atccatgggtg	600
ttatcctaaa	aaacagaaca	caatattatt	atattaagta	taccactgaa	tatagcaatt	660
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atcaccccag	ctatattaaa	atgaaacttc	tccccttttt	ctctctaggt	agcatcttcc	780
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cctcactaa	tcttttttgt	ttctgagatg	gagttctcatt	ctggttgcca	ggctggagtg	1560
cagtggcgcg	atcttggctc	actgaaagct	ccacctcctg	ttttcaagca	attctcctgc	1620
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tcgta						1685

<210> 22
 <211> 1837
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (987)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1037)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1312)
 <223> n equals a,t,g, or c

<400> 22
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 gcttgcccac gccccgggag ctgcgggcgc ctggcgggtca gcgaccagac gtccggggcc 180
 gctgcgctcc tggcccgcga ggcgtgacac tgtctcggct acagacccag agagaaaagc 240
 ttcatctctg aggggaagga gttttgagt ccaaggatga aattccaccc atcactcggc 300
 ctctgagctg caggacacag gcaggacaac gggagcacac tgccaggatg ggagctgctg 360
 ggaggcagga ctctctcttc aaggccatgc tgaccatcag ctggctcact ctgacctgct 420
 tccctggggc cacatccaca gtggctgctg ggtgcctga ccagagccct gagttgcaac 480
 cctggaacct tggccatgac caagaccacc atgtgcatat cggccagggc aagacactgc 540
 tgctcacctc ttctgccacg gtctattcca tccacatctc agagggaggc aagctgggtca 600
 ttaaagacca cgacgagccg attgttttgc gaaccgggca catcctgatt gacaacggag 660
 gararctgca tgctggggag tgccctctgc cctttccagg gcaatttcac catcattttg 720
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 gatgacatgg ccaggaaggc gatgaccaa ttgggaagca aacacttcct gcaccttgga 1140
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 aacttggagg ataattgtaca gtcattggaaa cctggagata cctgggtcat tgccagtact 1680
 gattactcca tgtaccaggc agaagagttc cagggtgcttc cctgcagatc ctgcgcccc 1740
 aaccagggtca aagtggcagg gaaaccaatg tacctgcaca tcgggggtcg acgcggccgc 1800
 gaatcccggg tcgacgagct cactagtcgg cggccgc 1837

<210> 23
 <211> 1095
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (720)
 <223> n equals a,t,g, or c

<400> 23

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tatgcaaact	taatggcggt	ttgttttttt	atattctatt	tgtattcttt	ccccagtatt	120
tcccatgggg	atctccacaa	gtttggagtt	ttttcctggt	gcacacacgt	gaggagattt	180
aagggtactat	atgcaagtgt	tttactaaaa	agcactgaaa	ttcttctggc	aatacaagaa	240
ccatttttcag	gatcttggag	ttacttcctt	cttaatcttt	cttaaagcat	tcactgatgt	300
ttttgttttt	tcaaaatgaa	acaaaaatat	cacattgaga	agctagtcta	tgttctgtca	360
ctaacattta	aactttgcag	actctaacaa	aaagcacaa	aggtcacgta	ctattataca	420
aatttagcgg	tactggattt	acctctgaca	ttaacacact	caggcagaga	ccaggagtga	480
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aaagatgtgt	tctgatgtct	tatattaaga	ccaratgtga	catgatgtga	ttatcttcca	660
gtactttgct	tttaggtacc	atttcatgac	attttaggaa	tgagtattgg	aaaatataan	720
gaattagaaa	agcagcactt	tttttttaat	ggaaaagtct	tcgggtccagt	gttacacctt	780
atagtgtaat	tcagtcacct	agcacagaat	gaatgtctgg	cctgcatatg	gtagttagag	840
tgtaacctct	ggctgcagac	cacacaggac	aaccctaaca	gcctagtctt	gtatggtgta	900
aatatcaaga	gtacagcttc	aatttcattt	gctttatctt	agcaacaatg	ccaactcagg	960
agagcagacg	gccgatttca	gtgaagtctg	gtagtcaaca	gatgttattt	cagtctcagt	1020
gcattctctc	tggctttctt	tgactgaagg	tgtttatagg	aaggaagtta	aaaaaaaaaa	1080
aaaaaaaaaac	tcgag					1095

<210> 24
 <211> 1039
 <212> DNA
 <213> Homo sapiens

<400> 24

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tggcatgcag	tgggcagtc	aatgctggct	attccagctg	tgcatggatt	ccagcttggc	120
cagtcttggg	tgggctgaga	aaagggagct	gcttttcctt	aaaagaccat	ccaactgtg	180
ctctaccaca	ctttgctctc	ctggctaaga	ctcagagaca	gatgtatgta	tgccctgag	240
caatctcttt	cccttctctg	gatctcgatt	ccttgcttgt	ataatgacct	ggtagtgtag	300
gaccaatggt	gctgggtgcg	gtggctcatg	cctgtaatcc	tagcactttg	gaacgccaag	360
cacgagaatc	tcttgattcc	aggtgttcaa	gaccagcctg	ggcaacatag	caagacccca	420
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aatttttaatg	ctattttta	ttaaataaat	taaaattaag	taaaatgaaa	ttttcagttc	780
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aaaaaaaaaaa	aaactcgag					1039

<210> 25
 <211> 1076
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (910)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (912)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (958)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1038)
 <223> n equals a,t,g, or c

<400> 25
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 ccctcctctc catcccagta cacattgttg gtgaggaaaa agacatgctt aagtgcacat 120
 tctgtctcct aaacactctt aagaaatgtg ttgtatggaa gagattatat cataatggtg 180
 gagcaaataa cctgtaattt tgttctagtgt ttaactgcct ccatttttagg ggttgagttt 240
 ctactccttt tccatgatct cttctcttgc tgtttaaaaa atgatttcac agagtaaagg 300
 tcagagtgcg ttaaaatgct tttgtatgaa gacctagcaa atacaagacc tgcttggctg 360
 attgcttatg gttggaagtg actcatctaa gcaacaggagt gtgaggttta tggcttagaa 420
 cgtaagatac cagcctctgt agtggccaaa taagccggcc tttttgtttg ttattacaga 480
 tgggttttga tgtcaaggct aactgagttt tgagttgtcc ataagatgga cagaacatct 540
 gcatataaca ccaactgaat gaacccccag tttgtctagg gctttgataa aaaatttggc 600
 cctctagacc gggcgtggtg gctcacacct ataatcccag cactttggga ggccgaggtg 660
 ggaggattgc ttaaggtcag gaatgcaaga ccaacttggt cttgtagtca gtgtagttag 720
 accccatctc taccaaaaaa aaaaaaaaaa aactcgaggg ggggcccggg acccaattcg 780
 ccctatagtg agtcgtatta caattcactg gccgtcgttt tacaacgtcg tgactgggaa 840
 aaccctggcg ttacccaact taatcgctt gcagcacatc cccctttcgc cagctggcgt 900
 aatagcgaan angcccgcac cgatcgccct tcccaacagt tgcgcagcct gaatggcnaa 960
 tggcaaattg taagcggttaa tattttgtta aaattcgcgt taaatttttg ttaaatacagc 1020
 tcatttttta accaatangc cgaaatcggc aaaatccctt ataaatcaaa agaata 1076

<210> 26
 <211> 860
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (27)

<223> n equals a,t,g, or c

<400> 26

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gcaggaattc	ggcacgagga	caaaggcttg	ggaaatgagg	ggaggtggag	gcagggcagg	120
ggaagcgaag	agtcagcctt	ggagagagca	ccctggggcc	tccgtgtcgg	ggtacaccca	180
gcactttgcg	acctgcggcc	cagcaggcgc	ggaggatggc	ggggaggaag	ccagcagccc	240
ctgtgtttac	tgtcgtcaga	aaggctctgt	gttttggttt	tgggggtttt	gttttggttt	300
tgttttgttt	ggcttggttg	ttttttaagg	ggaaaaaagt	ttgtaattat	ttcatccaaa	360
tctcccgtta	tatatctgtg	aataataaga	gattttataa	tagcaagaaa	atgatgtata	420
tttttagtttg	ttgacaaata	agtcatcatg	atcacgaagg	acactgagaa	aaaataattt	480
agaaccctgg	tttttgtaga	wttttttgtt	ttgtgtttct	ttgttttgag	atttggtgtt	540
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tccgatgggt	ttcagcagga	gacgggggtg	cccctgcagg	gggctaaact	gcaggggcct	660
gagattagct	gtgaacatgt	gggagcccga	tgcatgtggg	tcagggatct	ggggggcccc	720
ccagctggcg	ggaaccccaa	atggacacaa	actgtacatt	tgccaatggg	tttttttcag	780
accatgggtt	ttacttgcaa	ataaacctga	gttcttttct	gcaaaaaaaaa	aaaaaaaaaa	840
actgcggtcc	gcaaggggat					860

<210> 27

<211> 776

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (101)

<223> n equals a,t,g, or c

<400> 27

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<210> 28
 <211> 1074
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1063)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

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<210> 29
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 <212> DNA
 <213> Homo sapiens

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<210> 30

<211> 604

<212> DNA

<213> Homo sapiens

<400> 30

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ccgc						604

<210> 31

<211> 748

<212> DNA

<213> Homo sapiens

<400> 31

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<210> 32

<211> 943

<212> DNA

<213> Homo sapiens

<400> 32

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<210> 33

<211> 1293

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (184)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (208)

<223> n equals a,t,g, or c

<400> 33


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<210> 34

<211> 1699

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1692)

<223> n equals a,t,g, or c

<400> 34

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<211> 1820

<212> DNA

<213> Homo sapiens

<400> 35

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<210> 36

<211> 2572

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> n equals a,t,g, or c

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<210> 37

<211> 704

<212> DNA

<213> Homo sapiens

<400> 37

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gtctcctgct	gtgatgactg	ccttcataac	atacccttta	ttatttatct	gtcttcctc	180
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<210> 38
 <211> 437
 <212> DNA
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aactaagtga	gacactggca	gagcaaggtt	atatttagtg	ctagaaagga	cctacaacat	360
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<210> 39
 <211> 943
 <212> DNA
 <213> Homo sapiens

<400> 39						
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<210> 40
 <211> 1875
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> n equals a,t,g, or c

<222> (770)

<223> n equals a,t,g, or c

<400> 42

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tcaccactat	aaaactgtca	attattgcct	aatgttaaag	atatccatca	ttgtgattaa	600
ttaaacctat	aatgagtatt	cttaatggag	aattcttaat	ggatggatta	ttccctgata	660
ttttcyttaa	aatttctctg	ca'cacacagg	acttctcatt	ttccaataaa	tgggtgtact	720
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<210> 43

<211> 1676

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (798)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (927)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (944)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (974)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1035)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1058)

<223> n equals a,t,g, or c

<400> 43

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<210> 44
<211> 766
<212> DNA
<213> Homo sapiens
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<210> 45      ..
<211> 1021
<212> DNA
<213> Homo sapiens
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<400> 45
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aaagctgtta tttggctaaa attgcacagg aggccatgaa cagaggcaag tgccccagag      180
actccacttt cattcctaac tgtttctaaa ttaatgctca tgattgagta ttctcagtcg      240
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<210> 46
<211> 1873
<212> DNA
<213> Homo sapiens
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```
<210> 47
<211> 621
<212> DNA
<213> Homo sapiens
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<220>
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 <222> (488)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
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 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (539)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (548)
 <223> n equals a,t,g, or c

<400> 47
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 aaaacccttg gtcccccgga a 621

<210> 48
 <211> 1290
 <212> DNA
 <213> Homo sapiens

<400> 48
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<210> 49
<211> 2126
<212> DNA
<213> Homo sapiens
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<210> 50
<211> 1363
<212> DNA
<213> Homo sapiens
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<400> 50						
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<210> 51

<211> 2398

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1874)

<223> n equals a,t,g, or c

<400> 51

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tcttcaattt	taacacttga	gattttctta	cattttaagg	actgacaatt	agaaaatgct	2280
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tattaaaaaa	aaaaaaaaaa	aactcgrggg	ggggcccgtg	cccaatcgcc	cctcatga	2398

<210> 52

<211> 2234

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (136)

<223> n equals a,t,g, or c

<400> 52

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gcccccaact	ccccacccc	ccatcccagt	gggaatgccca	ccaacagccc	atctcaacaa	120
tttcccaaag	taacantctc	caggtggaag	acctgtgaag	tatccccacc	cagaaacctt	180
ggatactgag	tctcctaata	ttatcaattc	tgatgggttt	tttttttccc	agcttttgag	240
ccaacaactc	tgattaacta	ttcctatagc	atctactata	ttgttttagt	gaacaaacaa	300
tatgtggtca	attaaattga	cttgtagact	gaggggattt	tgggttttgt	tttgggtttt	360
gtttttttgc	ggtggggggg	ctggtatttg	gaagaattta	gctctttatg	ttacagaaat	420
ctttttttgca	aggacttaga	aatgataatg	cttaagattg	ttcttgcccm	atgtgggaag	480
agaatctaag	gtttttatat	gtcttgcaac	ctcatcaaag	gaaaattact	ggcatcattt	540
ycataatttg	aaaaaaaaag	ccaaattaat	atattttctt	tttgattcac	tttttaagt	600
atcattttta	aaactttact	tttgaccac	tgaattttat	tagatagaag	gaaaagagat	660
gatgggaggg	aagttagat	aaaggatgga	agttgggttt	atntaaacaa	tagcccygtg	720
atctccyaat	gagaagtga	tagaaattga	agaaaccaa	taaggrrggt	awtggkcaat	780
ttagcyttag	tttctcttac	tctctcaagc	ctgccctgtt	taactccaaa	gttcatggct	840
cataatttga	gaaacactgt	tttaaacaca	ggagaaaaaa	atgtccattt	taaatcatag	900
ctattgaatt	ctacaattac	aaagaacaa	acaaacaaa	tttgaccaac	ccaggcggtt	960
aaattttaaac	tcttcaggaa	aaattttaagc	tgttaamatt	attctttttt	ttaaattcta	1020
aagtggaggg	acagaatttt	tcagatttaa	aagggcctcc	taggtgccc	gaaaattagt	1080
ggaaagaacc	acgtctagac	gcatctttga	tgtgtcagag	ttccaaggat	aaaaagaaac	1140
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tcagacagat	tttaggcagt	ttatcttcca	tatatccttt	tctttaagg	tattttaga	1260
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acaggggcaa	ataatgcagt	taaaataaca	acatgacaat	caggtggagg	aatgtataat	1560
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aagccgggca gattacctga ggtcaggagt tgcagaccag cttggccaac atggcgaaac	1680
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gctcctcagg agctgaggta ggagaatcac ttgaaccag gaggcaaagg gtgcaggag	1800
ttgagcccaa gatcgcgcca ttgcacccta gcctgggcaa cagagcgaga ttctgtttca	1860
aaaaaccccc aagtgtatta taaggcaata attcctatac gaagcaaact aaaatgcagc	1920
aatattaagg tataaaaaca aagaggaata attccattga accttgattc tggaaacttt	1980
gatccaccca gcagtcatga tgtttagactc attgaaaaga atgtatttct aatgcattgat	2040
gcaatcggtc tatagatgtg tcatggaaac ttggttgcaa cttcaagaca aaataaaaag	2100
taaacattta catgaaaaat ggtggatatg gaaggtggag aagagaggag ataacagctt	2160
tatctttcaa aatagagaat tgagagatgg taccaaaagc tgatgaagta aaaaaaaaaa	2220
aaaaaaactc gtag	2234

<210> 53

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (502)

<223> n equals a,t,g, or c

<400> 53

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ggcttgaggg ccaggcgctt ggcagcgctg ggctccactt ggatcatgcc tttgacgtag	120
gcacgcaagg cagccttggt tttcttcac cagatagacg cgcgcttgcg ctcttcgtgg	180
gcgtgttcgt gattgttctc atccacggct ttttcgtgca gcagcaagaa gggctgctca	240
cgggccagca gacgttcgaa ggtcaggaag gcgtcttcg gcgcaccttc gctaggcgcg	300
tcgaaaaaga ttttcaccac cgggaaagtt gaactgtcga gtcgcatggc aaagctcctt	360
tgatgagatt gattctcatc atagggcgcc tggcgctgga cagcattgca cagaatagcc	420
agaatgtttc gcaatccagc caaggcagtt atcaccatgg ttcacaccg cctcgaccag	480
tacgacccct gccgggtccg cnacgccgcc gcgatccctc gctcgattgt tgcagtgg	538

<210> 54

<211> 1484

<212> DNA

<213> Homo sapiens

<400> 54

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aggacgatga aggccatgct tcagtgtttt cgtttctatt tcatgagact ttttgtcttc	120
ctgcttacia gtgggaagat gattgacagt gactctacta tgcagggctg ttggtacca	180
cctgagccct ataggtggca gtccctggag aagtggtcac agaagatgga gctctgatcc	240
cctgcttacc tcttcacaac acttgtgtgc aaagatagtt ttagatttgg tttagaagct	300
atccctcaga acaggctccc atacttagaa tgtttctagt taaggtaata aattaggcaa	360
cccaagtgtg actccactca agtgtccttt tctgtaggca ggaagggccc acaacatggc	420
ttaaaatgta gtccatgggt ctggccaca gtacagtgtg tatctatacc aggtcacctg	480
tggtcaatct ggggagcctt cctggccagt ctgagtggca gccagaaggg agtccatagt	540
gtctaggaat ctcaggcaaa gttaggtcagg gtactgtggg caggggggat gtgtgtgata	600
ggagagggtg ccctaaaccc cataccttcc ctccctgacc tgaaaagctg atctcaacag	660
ggattcacac agaattaggc tgtgtttttg cattaaactgg taggtgactt tctcaaaatt	720
cttaaatcca gaaagtattt agtaaaactg aggaaggatg gaaatctgga ggaggcatcc	780
aggacccagg ggtttgatag ctttacaggt aggatcatac cacaccaaaa gagcagtggg	840
caataagact atatgagcta tatgaagctt ttaggaatca ttaggacag acagagccct	900
aaacaaccca ttcattgact aagttgttgg ctgagtgtat gctggggaca aagaaaaact	960
aacaagccga cctgccttta tgataaatc tagtgtgctt acaagggatg acttcttgag	1020
gtgtgatctg tccaccttga agaactccac aactgaagaa ggggagctgt gagaacgtgg	1080

attgttctac aacttgcaca gggtaacaga ggaagtggct gaggcctaga gtcacgtttt	1140
ccagttccct tcgcaaacta tttttcttgg aacgcgaaag gaagctttac ctatttcata	1200
gaagacctgg aatccataac ctgagaaggc aatattattg atagaaaatg tggaaggatc	1260
aggaagttct tagattcttg gatgacagat gcatgttgat gccctatgga gatgtccttg	1320
tgttttgagg tcaactgaggt aggaagacct gtctactctt ggtttcacca ctagaacagt	1380
cttgggctgg atgggttata gagctgagcg gctgtgatgg ttctgttttt acattaacaa	1440
aaacaattaa aaacaccaaa aacaacaaaa aaaaaaaaaa aaaa	1484

<210> 55
 <211> 1765
 <212> DNA
 <213> Homo sapiens

<400> 55	
ggcacgagat ttctgggagt cctgcagagt ctagttgcc aagtgaacat tcttaaaaag	60
atcgttcaga agtttaccag aattaaaaga tgctgtcttg gaccagtatt caatgtgggg	120
aaataaattt ggagttattgc tttttctgta ttctgtatta ctgacaaagg gcattgaaaa	180
cataaaaaac gaaattgaag atgcaagtga acccttgata gatcctgtat atggacatgg	240
cagccaaagt ttaattaatc tcctgctgac gggacatgct gtttctaata tatgggatgg	300
tgatagagag tgctcaggaa tgaaacttct tgggtatacat gaacaagcag cagtaggatt	360
tttaacacta atggaagctt taagatactg taagggttgg tcttacttga aatctccaaa	420
attccctatt tggattgttg gcagtgaagc tcacctcacc gtattttttg ccaaggatat	480
ggcttttagtt gcccctgaag ctccctcaga acaagccaga agagtttttc aaacctacga	540
cccagaagat aatggattca taccogattc acttctggaa gatgtgatga aagcattgga	600
ccttgtttca gatcctgaat atataaatct catgaagaat aaattagatc cagaaggatt	660
aggaatcata ttattggggc catttcttca agaatttttt cctgatcagg gctccagtgg	720
tccagaatct tttactgtct accactacaa tggattgaag cagtcaaatt ataatgaaaa	780
ggcatgtac gtagaaggga ctgcagttgt gatgggtttt gaagatccca tgctacagac	840
agatgacact cctattaaac gctgtctgca aaccaaattg ccatacattg agttactctg	900
gaccacagat cgctctcctt cactaaatta atttgtctaa gtatttataa ggaagatctt	960
aataacagat gttgaaagaa ggagtcaaga ctggcaattg gctggattaa gctaaacact	1020
ggtatcactg attaaactgta aataacaatt aaaaacacat tttcagtgtt tatgatatgt	1080
ttaaattatt tgtcctaaag ctttatgtta aagattatcc tattttaccc cttcgtgtga	1140
aatttactag caaaattaag ctttcatcaa agttcatcac ttttgcattc agatacttgg	1200
tcatttactt accaaattac aaacgcaata ctacagcatt tgtatattaa gtatcacagt	1260
tactattgat aaactacttt tgggttttat ttcattgagg cacttttttt attgtttgaa	1320
tgattccggc ttgtaatata tcagcctcta caatgaaatg cagaagagtt catttttcta	1380
agatctgttt ttcattagaa atattgacaa ataacacatt gtcaacctgg atcctttgac	1440
aatttactta actctggcat gttcacaaaa agtagaaact ctaagagacc attaccattt	1500
attcacagat gtatagggga tgtattctaa aaactgacag aaaagagaat ctgatagtca	1560
acactgttaa cttttactgt gtaattgcc aatacacttt tccaaatttg tcccaacagc	1620
cctgtaagcc agctttcttc tatatttata aacacgataa atgcatgaga agatctgtta	1680
ttacattagt atattacgtt atttattatg atcctagtgt atggcctaaa taaacacctt	1740
tttcttttaa aaaaaaaaaa aaaaa	1765

<210> 56
 <211> 1478
 <212> DNA
 <213> Homo sapiens

<400> 56	
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gaaatggcgc cctccgggag tcttgcaagt cccctggcag tcctgggtgct gttgcttttg	120
ggtgctccct ggacgcacgg gcggcgagc aacgttcgcg tcatcacgga cgagaactgg	180
agagaactgc tggaaggaga ctggatgata gaattttatg ccccggtggg cctgcttgt	240
caaaatcttc aaccggaatg ggaaagtttt gctgaatggg gagaagatct tgaggttaat	300
attgcgaaag tagatgtcac agagcagcca ggactgagtg gacgggtttat cataactgct	360

cttcctacta	tttatcattg	taaagatggg	gaatttaggc	gctatcaggg	tccaaggact	420
aagaaggact	tcataaactt	tataagtgat	aaagagtggg	agagtattga	gcccgtttca	480
tcattggttg	gtccagggtc	tggtctgatg	agtagtatgt	cagcactctt	tcagctatct	540
atgtggatca	ggacttgcca	taactacttt	attgaagacc	ttggattgcc	agtgtgggga	600
tcataactg	tttttgcttt	agcaactctg	ttttccggac	tggtattagg	actctgtatg	660
atatttgtgg	cagattgcct	ttgtccttca	aaaaggcgca	gaccacagcc	gtaccatac	720
ccttcaaaaa	aattattatc	agaatctgca	caacctttga	aaaaagtggg	ggaggaaaca	780
gaggcgggatg	aagaagatgt	ttcagaagaa	gaagctgaaa	gtaaagaagg	aacaaacaaa	840
gactttccac	agaatgccat	aagacaacgc	tctctgggtc	catcattggc	cacagataaa	900
tcttagttaa	attttatagt	tatcttaata	ttatgatttt	gataaaaaa	gaagattgat	960
cattttgttt	ggtttgaagt	gaactgtgac	ttttttgaat	attgcagggt	tcagtctaga	1020
ttgtcattaa	attgaagagt	ctacattcag	aacataaaag	cactaggtat	acaagtttga	1080
aatatgattt	aagcacagta	tgatggttta	aatagttctc	taatttttga	aaaatcgtgc	1140
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aaatttacat	ttcccaagta	ttgcattatt	gaggatttta	agaagattat	tttagagaaa	1260
aatattttctc	atttgatata	atttttctct	gtttcactgt	gtgaaaaaaa	gaagatattt	1320
cccataaatg	ggaagtttgc	ccattgtctc	aagaaatgtg	tatttcagtg	acaatttcgt	1380
ggctcttttta	gaggatatatt	ccaaaatttc	cttgtatttt	taggttatgc	aactaataaa	1440
aactacctta	cattaattaa	aaaaaaaaaa	aaaaaaaaaa			1478

<210> 57

<211> 1089

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (528)

<223> n equals a,t,g, or c

<400> 57

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tcggtctgcc	ccgtccgggc	tctggggcca	aggctgggtt	tccctcatgt	atggcaagag	120
ctctactcgt	gcggtgcttc	ttctccttgg	catacagctc	acagctcttt	ggcctatagc	180
agctgtggaa	atttatacct	cccgggtgct	ggaggctgtt	aatgggacag	atgctcgggt	240
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tcgtcctcta	gacgggggac	ctgagcagtt	tgtattctac	taccacatag	atnccttcca	360
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tgctctccatc	cttctctgga	aactgcagtt	cgacgacaat	gggacataca	cctgccaggt	480
gaagaaccca	cctgatgttg	atgggggtgat	aggggacatc	cggctcancg	tcgtgcacac	540
tgtacgtctc	tctgagatcc	acttctctggc	tctggccatt	ggctctgcct	gtgactgat	600
gatcataata	gtaattgtag	tggtcctctt	ccagcattac	cggaaaaagc	gatggggccga	660
aagagctcat	aaagtgggtg	agataaaatc	aaaagaagag	gaaagggtca	accaagagaa	720
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gagacaaaag	tcttctatta	gtcttatgga	tagctcctcc	ttgagtgtat	tttgtgcaaa	960
agattaagaa	gctggactct	actgccatta	aagctgagag	aatcctaagg	ttaaaaaaa	1020
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1080
aaaaaaaaaa						1089

<210> 58

<211> 1772
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1480)
 <223> n equals a,t,g, or c

<400> 58

tcgacccacg	cgtccgggag	agaacgccgg	tggcggggct	ggtagcccg	cagccgcagt	60
ggggccacga	gcgtggctg	agggaccgag	ccggagagcc	ccggagcccc	cgtaacccgc	120
gcgggggagcg	cccaggatgc	cgcgcgggga	ctcggagcag	gtgcgctact	gcgcgcgctt	180
ctcctacctc	tggctcaagt	tttcacttat	catctattcc	accgtgttct	ggctgattgg	240
ggccctggtc	ctgtctgtgg	gcatctatgc	agagggttgg	cggcagaaat	ataaaaccct	300
tgaagtgcc	ttcctggctc	cagccatcat	cctcatcctc	ctgggcgtcg	tcatgttcat	360
ggtctccttc	attggtgtgc	tggcgtccct	ccgtgacaac	ctgtaccttc	tccaagcatt	420
catgtacatc	cttgggatct	gcctcatcat	ggagctcatt	ggtggcgtgg	tggccttgac	480
cttccggaac	cagaccattg	acttcctgaa	cgacaacatt	cgaagaggaa	ttgagaacta	540
ctatgatgat	ctggacttca	aaaacatcat	ggactttgtt	cagaaaaagt	tcaagtgtcg	600
tggcggggag	gactaccgag	attggagcaa	gaatcagtac	cacgactgca	gtgcccctgg	660
acccttggcc	tgtgggggtg	cctacacctg	ctgcacwgg	aacacracag	aagttgtcaa	720
caccatgtgt	ggctacaaaa	ctatcgacaa	ggagcgtttc	agtgtgcakg	atgtcatcta	780
cgtgcggggc	tgcaccaacg	ccgtgatcat	ctggttcatg	gacaactaca	ccatcatggc	840
gggcatectc	ctgggcatcc	tgttcccca	gttcctgggg	gtgctgctga	cgctgctgta	900
catcaccccg	gtggaggaca	tcatcatgga	gcactctgtc	actgatgggc	tcttggggcc	960
cgggtgccaa	cccagcgtgg	aggcggcagg	cacgggatgc	tgttgtgtct	accccaatta	1020
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catcgtgggg	ctggacaggg	ctgcggccct	ctgcccacac	tcagtactga	ccaaagccag	1140
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caataaaaaa	atgttttktt	ttkttttttt	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1740
aaaaaaaaaa	aaaaaaaaaa	aagggcggcc	gc			1772

<210> 59
 <211> 1279
 <212> DNA
 <213> Homo sapiens

<400> 59

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ctatcaataa	gtagatttta	tttattctaa	ctatattttt	atatccatta	accatcccc	120
acatcccccc	aatatttttag	ttttttgagg	aactccagt	catcattaat	accactttt	180
cctccctcct	cctctctcac	cactccccaa	gccatttcta	attcgtctcc	aagccttgtg	240
taattgttta	ttaatattta	tttatttggc	tgggtgcggt	ggcttacacc	tgtagtccca	300
gcactttggg	aagccgaggc	ggctgggtcg	cctgaggtca	ggagttcaag	accagcctgg	360
ccaacatggc	aaaaccccg	ctctgctaaa	aatacaaaaa	ttagctgggc	gtggtgatgc	420
acacctgtaa	tcccaaccac	ctgcgaggct	gaagcaggag	aatcgcttga	accaggaag	480
tggaggaggt	tatatatata	tgagacatat	atacacacac	acacacacac	aaatataaaa	540
tatgtgttga	tatatatata	taaacatata	tatatgttta	tttgtcccct	ctttccatt	600
ctcattgctg	ctgtccctat	taagaccttt	atcatcattt	ctttggccta	attagaatag	660

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tgtgatcatt	caaaattgct	agtttgaggaga	taatatattc	ctgtttcaaa	accctcccct	780
tgaggtgtac	ccaacagctc	attgagaacg	ggccacgatg	acaatggcgg	ttttgtggaa	840
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gaaagaagta	gacatgggag	actttttcatt	ttgttctgta	ctaagaaaaa	ttcttctgcc	960
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ttgaaggcag	catgctcggt	aagagtcctc	accactccct	aatctcaagt	acccagggac	1140
acaaacactc	tgcctaggaa	aaccagagac	ctttgttcac	ttgtttgtct	gttgaccttc	1200
cctccactgt	tgtcctgtga	ccctgccaag	tccctctgc	gagaaacacc	caagaatgat	1260
caaaaaaaaa	aaaaaaaaa					1279

<210> 60

<211> 1539

<212> DNA

<213> Homo sapiens

<400> 60

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tagtaggtta	taaaaattta	aattttaaca	aaattatttc	atgacaaaat	gggaaacttc	120
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<211> 1937

<212> DNA

<213> Homo sapiens

<400> 61

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<210> 62

<211> 1452

<212> DNA

<213> Homo sapiens

<400> 62

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1452

<210> 63
 <211> 971
 <212> DNA
 <213> Homo sapiens

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 <211> 1723
 <212> DNA
 <213> Homo sapiens

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 <211> 2550
 <212> DNA
 <213> Homo sapiens

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 <211> 1192

<212> DNA

<213> Homo sapiens

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<210> 67

<211> 1543

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> n equals a,t,g, or c

<400> 67

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<210> 68

<211> 1282

<212> DNA

<213> Homo sapiens

<400> 68

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<210> 69

<211> 1440

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (323)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (337)

<223> n equals a,t,g, or c

<400> 69

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catgtggccc	aggacggctt	tgaatatggc	ccaacacaaa	ttcataaact	ttcttaaaac	300
aatatgagct	tatgaaat	tyntcatgat	atttttnctt	ttttcttttt	tttttttttt	360
taactcatya	gctatcatta	gtgttaatgt	attttatgtg	tggccaaga	cagttcttcc	420

aatgtggccc	aggaaagcca	aaagattgga	caccctgct	ttataccctt	tacactgtcc	480
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aaagttacca	.aaacaaaccg	aaaaatttat	tgtatttggg	attttagaaa	atccaactat	600
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ttaaatactt	ttcataataa	tcattatttt	atgacatgac	tataatatta	aatctgttag	780
gactagaaga	atttttacct	ttttcaagga	aattgttagt	agttcagcaa	acagtttcta	840
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<210> 70

<211> 1068

<212> DNA

<213> Homo sapiens

<400> 70

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<210> 71

<211> 1948

<212> DNA

<213> Homo sapiens

<400> 71

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cccagagatg	ctgaagcctc	tttggaaagc	agcagtggcc	cccacatggc	catgtctccat	180
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<210> 72

<211> 1837

<212> DNA

<213> Homo sapiens

<400> 72

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gaaggcatct	ttttttgttt	atactgtaat	ccccaaaatg	tccaactggc	tgaatggcca	660
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41

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<210> 73
 <211> 1161
 <212> DNA
 <213> Homo sapiens

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<210> 74
 <211> 1450
 <212> DNA
 <213> Homo sapiens

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tgggtggctta tatgcattgg tagttttctca tggtaataag cttttttttt tctcttctct	180
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aaaaaaaaa	1450

<210> 75
 <211> 557
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (136)
 <223> n equals a,t,g, or c

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<210> 76
 <211> 2483
 <212> DNA
 <213> Homo sapiens

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gaatgtggth	tttggtthtt	ttthgtthta	acactagtct	tcccttaatt	cattgctaac	2400
tcaagccatc	cttactatta	aaccctaaatc	agtcctthta	gttcattatg	gcctthtctag	2460
tattthaaaa	aaaaaaaaaa	aaa				2483

<210> 77

<211> 667

<212> DNA

<213> Homo sapiens

<400> 77

ggcagcagca	ctgcagctcc	ctgagcactc	tctacagaga	cgcggaacccc	agacatgagg	60
aggctcctcc	tggtcaccag	cctggtggth	gtgctgctgt	gggaggcagg	tgcagtccca	120
gcaccaagg	tccctatcaa	gatgcaagtc	aaacactggc	cctcagagca	ggaccagag	180
aaggcctggg	gcgcccgtgt	ggtggagcct	cgggagaagg	acgaccagct	ggtgggtgctg	240
ttccctgtcc	agaagccgaa	actcttgacc	accgaggaga	agccacgagg	caccaaggcc	300
tggtatggaga	ccgaggacac	cctggggcgt	gtcctgagtc	ccgagcccga	ccatgacagc	360
ctgtaccacc	ctccgcctga	agaggaccag	ggcgaggaga	ggccccggth	gtagggtgatg	420
ccaaatcacc	agggtgtcct	gggaccggag	gaagaccaag	acacatctac	cacccccagt	480
aggggctcca	ggggccatca	atgccccgc	cctgtcccaa	ggcccaggct	gthgggactg	540
ggaccctccc	taccctgccc	cagctagaca	aataaacccc	agcaggccgg	aaaaaaaaaa	600
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	660
aaaaaaa						667

<210> 78

<211> 1931

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1212)

<223> n equals a,t,g, or c

<400> 78

cccgcagcag	ctcccaggat	gaactggthg	cagtggctgc	tgctgctgcg	ggggcgctga	60
gaggacacga	gctctatgcc	tttccggctg	ctcatccgc	tgggcctcct	gtgcgcgctg	120
ctgcctcagc	accatggthg	gccaggthcc	gacggctccg	cgccagatcc	cgccactac	180
agggagcgag	tcaaggccat	gthctaccac	gcctacgaca	gctacctgga	gaatgcctth	240
cccttcgatg	agctgcgacc	tctcacctgt	gacgggcagc	acacctgggg	cagthtttct	300

<400> 79						
caggcagang	ggctgagtc	caggcacagg	tgaggaactc	aactcaaact	cctctctctg	60
ggaaaacgcg	gtgcttgctc	ctcccggagt	ggccttgcca	gggtgttgga	gccctcggtc	120
tgccccgtcc	ggctctctggg	gccaaaggctg	ggtttccctc	atgtatggca	agagctctac	180
tcgtgcgggtg	cttctctctcc	ttggcataca	gctcacagct	ctttggccta	tagcagctgt	240
ggaaatztat	acctcccggg	tgctggaggc	tgtaaatggg	acagatgctc	ggtaaaatg	300
cactttctcc	agctttgccc	ctgtgggtga	tgctctaaca	gtgacctgga	atcttcgtcc	360
tctagacggg	ggacctgagc	agtttgtatt	ctactaccac	atagatcccn	ttccaacca	420
tgagtgggcy	gtttaaggac	cgggtgtctt	gggatgggaa	tcctgagcgg	tacgatgcct	480
ccatcctctc	ctggaaactg	cagttcgacg	acaatgggac	atacacctgc	cagggtgaaga	540
accacctga	tgttgatggg	gtgatagggg	asatccggct	cagcgtcgtg	cacactgtac	600
gcttctctga	gatccacttc	ctggctctgg	ccattggctc	tgccctgtga	ctgatgatca	660
taatagtaat	tgtagtggtc	ctcttccagc	attaccggaa	aaagcgatgg	gccgaaagag	720
ctcataaagt	ggtggagata	aaatcaaaag	aagaggaaaag	gctcaaccaa	gagaaaaagg	780

tctctgttta	tttagaagac	acagactaac	aatttttagat	ggtaagggttc	acaaataggt	840
tgattttcttt	cttcagcttt	ctgacatgtc	cagcccatct	ctaagtagga	ctcccagatc	900
atcacttttat	ggctgttarg	tgtttcccat	atgaaattag	aggagctggg	tcagggagac	960
aaaagtcttc	tattagtctt	atggatagct	cctccttgag	tgtattttgt	gcaaaagatt	1020
aagaagctgg	actctactgc	cattaaagct	gagagaatcc	taaggttatt	tgtggcttcg	1080
gggttatatt	tattactact	actactaata	aatattcaac	aagtaaataa	atctttttta	1140
aatca						1145

<210> 80

<211> 1955

<212> DNA

<213> Homo sapiens

<400> 80

ggcacgagtg	ccatccctgt	atttgctgcc	atgctcttcc	ttttctccat	ggctacactg	60
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ttcatagaaa	tggagataga	agctaccaat	ggcgcggtgc	cccagggcca	gcgaccaccg	180
cctcgtatca	agaatttcca	gataaacaac	cagattgtga	aactgaaata	ctgttacaca	240
tgcaagatct	tccggcctcc	ccgggcctcc	cattgcagca	tctgtgacaa	ctgtgtggag	300
cgcttcgacc	atcactgccc	ctgggtgggg	aattgtgttg	gaaagaggaa	ctaccgctac	360
ttctacctct	tcatcctttc	tctctccctc	ctcacaatct	atgtcttcgc	cttcaacatc	420
gtctatgtgg	ccctcaaatc	tttgaaaatt	ggcttcttgg	agacattgaa	aggaaactcc	480
tggaactggt	ctagaagtcc	tcatttgctt	ctttacactc	tgggtccgtcg	tgggactgac	540
tggatttcat	actttcctcg	tggctctcaa	ccagacaacc	aatgaaagac	atcaaaggat	600
catggacagg	gaagaatcgc	gtccagaatc	cctacagcca	tggcaatatt	gtgaagaact	660
gctgtgaagt	gctgtgtggc	cccttgcccc	ccagtgtgct	ggatcgaagg	ggtattttgc	720
cactggagga	aagtgggaagt	cgacctccca	gtactcaaga	gaccagtagc	agcctcttgc	780
cacagagccc	agccccaca	gaacacctga	actcaaatga	gatgccggag	gacagcagca	840
ctcccgaaga	gatgccacct	ccagagcccc	cagagccacc	acaggaggca	gctgaagctg	900
agaagtagcc	tatctatgga	agagactttt	gtttgtgttt	aattagggct	atgagagatt	960
tcagggtgaga	agttaaacct	gagacagaga	gcaagtaagc	tgtccctttt	aactgttttt	1020
ctttggtctt	tagtcacca	gttgcacact	ggcattttct	tgctgcaagc	ttttttaaat	1080
ttctgaactc	aaggcagtgg	cagaagatgt	cagtcacctc	tgataactgg	aaaaatgggt	1140
ctcttggggc	ctggcactgg	ttctccatgg	cctcagccac	agggtccctc	tggacccctc	1200
ctcttccctc	cagatcccag	ccctcctgct	tgggggtcact	ggtctcattc	tgggggctaaa	1260
agttttcgag	actgggtcaa	atcctcccaa	gctgctgcac	gtgctgagtc	cagaggcagt	1320
cacagagacc	tctggccagg	ggatccctaac	tgggttcttg	gggtcttcag	gactgaagag	1380
gagggagagt	ggggtcagaa	gattctcctg	gccaccaagt	gccagcattg	cccacaaatc	1440
cttttaggaa	tgggacaggt	accttccact	agttgtattt	attagtgtag	cttctccttt	1500
gtctcccatc	cactctgaca	ccttaagccc	cactcttttc	ccattagata	tatgtaagta	1560
gttgtagtag	agataataat	tgacattttc	cgtagactac	ccagaaactt	ttttaataacc	1620
tgtgccattc	tcaataagaa	tttatgagat	gccagcggca	tagcccttca	cactctctgt	1680
ctcatctctc	ctcctttctc	attagccctc	tttaatttgt	ttttcctttt	gactcctgct	1740
cccattagga	gcaggaatgg	cagtaataaa	agtctgcact	ttgggtcattt	cttttcctca	1800
gaggaagcct	gagtgtcac	ttaaactata	tccccctaga	ctccctgtgt	gaggcctgca	1860
gaggccctga	atgcacaaat	gggaaaccaa	ggcacagaga	ggctctcctc	tcctctcctc	1920
tcccccgatg	taccctcaaa	aaaaaaaaaa	aaaaa			1955

<210> 81

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals stop translation

Ala His Leu Leu Ser Lys Lys Ala Gly Val Glu Val Glu Ala Gly Trp
130 135 140

Pro Cys Ser Gly Pro Leu Leu Arg Met Ala Glu Glu Ala Ala Arg Lys
145 150 155 160

Leu Leu Pro Ala Phe Gln Thr Pro Thr Gly Met Pro Tyr Gly Thr Val
165 170 175

Asn Leu Leu His Gly Val Asn Pro Gly Glu Thr Pro Val Thr Cys Thr
180 185 190

Ala Gly Ile Gly Thr Phe Ile Val Glu Phe Ala Thr Leu Ser Ser Leu
195 200 205

Thr Gly Asp Pro Val Phe Glu Asp Val Ala Arg Val Ala Leu Met Arg
210 215 220

Leu Trp Glu Ser Arg Ser Asp Ile Gly Leu Val Gly Asn His Ile Asp
225 230 235 240

Val Leu Thr Gly Lys Trp Val Ala Gln Asp Ala Gly Ile Gly Ala Gly
245 250 255

Val Asp Ser Tyr Phe Glu Tyr Leu Val Lys Gly Ala Ile Leu Leu Gln
260 265 270

Asp Lys Lys Leu Met Ala Met Phe Leu Glu Tyr Asn Lys Ala Ile Arg
275 280 285

Asn Tyr Thr Arg Phe Asp Asp Trp Tyr Leu Trp Val Gln Met Tyr Lys
290 295 300

Gly Thr Val Ser Met Pro Val Phe Gln Ser Leu Glu Ala Tyr Trp Pro
305 310 315 320

Gly Leu Gln Ser Leu Xaa Gly Asp Ile Asp Asn Ala Met Arg Thr Phe
325 330 335

Leu Asn Tyr Tyr Thr Xaa Trp Lys Gln Phe Gly Gly Leu Pro Glu Phe
340 345 350

Tyr Asn Ile Pro Gln Gly Tyr Thr Val Glu Lys Arg Glu Gly Tyr Pro
355 360 365

Leu Arg Pro Glu Leu Ile Glu Ser Ala Met Tyr Leu Tyr Arg Ala Thr
370 375 380

Gly Asp Pro Thr Leu Leu Glu Leu Gly Arg Asp Ala Val Glu Ser Ile
385 390 395 400

Glu Lys Ile Ser Lys Val Glu Cys Gly Phe Ala Thr Ile Lys Asp Leu
405 410 415

Arg Asp His Lys Leu Asp Asn Arg Met Glu Ser Phe Phe Leu Ala Glu
420 425 430

Thr Val Lys Tyr Leu Tyr Leu Leu Phe Asp Pro Xaa Asn Phe Ile His

445

Ser Ser

Gly Leu Asp Gly Met Phe Pro Ser Ser Cys Ser Pro Asn Val Ser Thr
85 90 95

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

Gly Ala His Xaa
100

<210> 84
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals stop translation

<400> 84
Met Gly Glu Phe Thr Ser Val Val Cys Tyr Cys Phe Ile Leu Ser Leu
1 5 10 15

Ile Ile Gly Ser Val Val Arg Trp Gln Gly Cys Gly Ala Glu Trp Gly
20 25 30

Phe Ala Leu Gly Glu His Met Trp Gln Arg Ala Gln Glu Asp Leu Xaa
35 40 45

<210> 85
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals stop translation

<400> 85
Met Asn Ala Thr Thr Ser Phe Gln Phe Thr Thr Pro Thr Arg Leu Trp
1 5 10 15

Leu Met Leu Leu Leu Asn Tyr Gln Ile Phe Cys Cys Tyr Thr Val Thr
20 25 30

Phe Lys Glu Phe Gly Lys Leu Val Ser Thr Ala Asn Leu Gly Xaa
35 40 45

<210> 86
<211> 276
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (276)
<223> Xaa equals stop translation

RefSeq: CCF0000

50

<400> 86

Met Gly Asn Phe Arg Gly His Ala Leu Pro Gly Thr Phe Phe Phe Ile
1 5 10 15

Ile Gly Leu Trp Trp Cys Thr Lys Ser Ile Leu Lys Tyr Ile Cys Lys
20 25 30

Lys Gln Lys Arg Thr Cys Tyr Leu Gly Ser Lys Thr Leu Phe Tyr Arg
35 40 45

Leu Glu Ile Leu Glu Gly Ile Thr Ile Val Gly Met Ala Leu Thr Gly
50 55 60

Met Ala Gly Glu Gln Phe Ile Pro Gly Gly Pro His Leu Met Leu Tyr
65 70 75 80

Asp Tyr Lys Gln Gly His Trp Asn Gln Leu Leu Gly Trp His His Phe
85 90 95

Thr Met Tyr Phe Phe Phe Gly Leu Leu Gly Val Ala Asp Ile Leu Cys
100 105 110

Phe Thr Ile Ser Ser Leu Pro Val Ser Leu Thr Lys Leu Met Leu Ser
115 120 125

Asn Ala Leu Phe Val Glu Ala Phe Ile Phe Tyr Asn His Thr His Gly
130 135 140

Arg Glu Met Leu Asp Ile Phe Val His Gln Leu Leu Val Leu Val Val
145 150 155 160

Phe Leu Thr Gly Leu Val Ala Phe Leu Glu Phe Leu Val Arg Asn Asn
165 170 175

Val Leu Leu Glu Leu Leu Arg Ser Ser Leu Ile Leu Leu Gln Gly Ser
180 185 190

Trp Phe Phe Gln Ile Gly Phe Val Leu Tyr Pro Pro Ser Gly Gly Pro
195 200 205

Ala Trp Asp Leu Met Asp His Glu Asn Ile Leu Phe Leu Thr Ile Cys
210 215 220

Phe Cys Trp His Tyr Ala Val Thr Ile Val Ile Val Gly Met Asn Tyr
225 230 235 240

Ala Phe Ile Thr Trp Leu Val Lys Ser Arg Leu Lys Arg Leu Cys Ser
245 250 255

Ser Glu Val Gly Leu Leu Lys Asn Ala Glu Arg Glu Gln Glu Ser Glu
260 265 270

Glu Glu Met Xaa
275

<210> 87

<211> 86

<212> PRT

03613153.032104

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (313)
 <223> Xaa equals stop translation

<400> 89

Met	Pro	Pro	Pro	Arg	Val	Phe	Lys	Ser	Phe	Leu	Ser	Leu	Leu	Phe	Gln	1	5	10	15
Gly	Leu	Ser	Val	Leu	Leu	Ser	Leu	Ala	Gly	Asp	Val	Leu	Val	Ser	Met	20	25	30	
Tyr	Arg	Glu	Val	Cys	Ser	Ile	Arg	Phe	Leu	Phe	Thr	Ala	Val	Ser	Leu	35	40	45	
Leu	Ser	Leu	Phe	Leu	Ser	Ala	Phe	Trp	Leu	Gly	Leu	Leu	Tyr	Leu	Val	50	55	60	
Ser	Pro	Leu	Glu	Asn	Glu	Pro	Lys	Glu	Met	Leu	Thr	Leu	Ser	Glu	Tyr	65	70	75	80
His	Glu	Arg	Val	Arg	Ser	Gln	Gly	Gln	Gln	Leu	Gln	Gln	Leu	Gln	Ala	85	90	95	
Glu	Leu	Asp	Lys	Leu	His	Lys	Glu	Val	Ser	Thr	Val	Arg	Ala	Ala	Asn	100	105	110	
Ser	Glu	Arg	Val	Ala	Lys	Leu	Val	Phe	Gln	Arg	Leu	Asn	Glu	Asp	Phe	115	120	125	
Val	Arg	Lys	Pro	Asp	Tyr	Ala	Leu	Ser	Ser	Val	Gly	Ala	Ser	Ile	Asp	130	135	140	
Leu	Gln	Lys	Thr	Ser	His	Asp	Tyr	Ala	Asp	Arg	Asn	Thr	Ala	Tyr	Phe	145	150	155	160
Trp	Asn	Arg	Phe	Ser	Phe	Trp	Asn	Tyr	Ala	Arg	Pro	Pro	Thr	Val	Ile	165	170	175	
Leu	Glu	Pro	His	Val	Phe	Pro	Gly	Asn	Cys	Trp	Ala	Phe	Glu	Gly	Asp	180	185	190	
Gln	Gly	Gln	Val	Val	Ile	Gln	Leu	Pro	Gly	Arg	Val	Gln	Leu	Ser	Asp	195	200	205	
Ile	Thr	Leu	Gln	His	Pro	Pro	Pro	Ser	Val	Glu	His	Thr	Gly	Gly	Ala	210	215	220	
Asn	Ser	Ala	Pro	Arg	Asp	Phe	Ala	Val	Phe	Gly	Leu	Gln	Val	Tyr	Asp	225	230	235	240
Glu	Thr	Glu	Val	Ser	Leu	Gly	Lys	Phe	Thr	Phe	Asp	Val	Glu	Lys	Ser	245	250	255	
Glu	Ile	Gln	Thr	Phe	His	Leu	Gln	Asn	Asp	Pro	Pro	Ala	Ala	Phe	Pro	260	265	270	

Lys Val Lys Ile Gln Ile Leu Ser Asn Trp Gly His Pro Arg Phe Thr
 275 280 285

Cys Leu Tyr Arg Val Arg Ala His Gly Val Arg Thr Ser Glu Gly Ala
 290 295 300

Glu Gly Ser Ala Gln Gly Pro His Xaa
 305 310

<210> 90

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals stop translation

<400> 90

Met Met Ser Ser Cys Leu Val Val Val Ile Thr Leu Arg Ala Tyr Phe
 1 5 10 15

Ser Trp Leu Gln Ala Ile Arg Ser Gln Val Val Trp Ser Arg Met Lys
 20 25 30

Arg Leu Gln Ser Ala Ser Arg Gln Ser Gly Leu Ser Ile Pro Arg Ser
 35 40 45

Glu Met Ser Ala Leu His Arg Leu Gln Asp Trp Ser Asp Lys Ser His
 50 55 60

Ile Leu Phe Phe Ile Phe Leu Pro Arg Val Cys Arg Phe Pro Leu Xaa
 65 70 75 80

<210> 91

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals stop translation

<400> 91

Met Leu Phe Leu Thr Cys Arg Ser Pro His Ser Cys Cys Val Ile Thr
 1 5 10 15

Trp Phe Phe Leu Cys Ala Cys Ala Leu Val Ser Ser Ser Tyr Gln Asp
 20 25 30

Asn Asn Pro Ile Gly Phe Arg Pro Glu Pro Tyr Asn Pro Ile Xaa

<400> 93
Met Ala Phe Cys Phe Phe Ile Phe Tyr Leu Tyr Ser Phe Pro Ser Ile

1 5 55 10 15
 Ser His Gly Asp Leu His Lys Phe Gly Val Phe Ser Trp Cys Thr His
 20 25 30
 Val Arg Arg Phe Lys Val Leu Tyr Ala Ser Val Leu Leu Lys Ser Thr
 35 40 45
 Glu Ile Leu Leu Ala Ile Gln Glu Pro Phe Ser Gly Ser Trp Ser Tyr
 50 55 60
 Phe Leu Leu Asn Leu Ser Xaa
 65 70

<210> 94
 <211> 48
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals stop translation

<400> 94
 Met Gln Trp Ala Val Lys Cys Trp Leu Phe Gln Leu Cys Met Asp Ser
 1 5 10 15
 Ser Leu Ala Ser Leu Gly Trp Ala Glu Lys Arg Glu Leu Leu Phe Pro
 20 25 30
 Lys Arg Pro Ser Gln Leu Cys Ser Thr Thr Leu Cys Ser Pro Gly Xaa
 35 40 45

<210> 95
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (57)
 <223> Xaa equals stop translation

<400> 95
 Met Asn Trp Cys Leu Cys Ile Ile Ser Leu Thr Thr Leu Leu Ser Ile
 1 5 10 15
 Pro Val His Ile Val Gly Glu Glu Lys Asp Met Leu Lys Cys Thr Phe
 20 25 30
 Cys Leu Leu Asn Thr Leu Lys Lys Cys Val Val Trp Lys Arg Leu Tyr
 35 40 45

His Asn Gly Gly Ala Asn Asn Leu Xaa
 50 55

<210> 96
 <211> 73
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals stop translation

<400> 96
 Met Ala Gly Arg Lys Pro Ala Ala Pro Val Phe Thr Val Val Arg Lys
 1 5 10 15
 Val Leu Cys Phe Gly Phe Gly Val Phe Val Leu Phe Val Phe Cys Leu
 20 25 30
 Ala Cys Leu Phe Phe Lys Gly Lys Lys Val Cys Asn Tyr Phe Ile Gln
 35 40 45
 Ile Ser Arg Tyr Ile Ser Val Asn Asn Lys Arg Phe Tyr Asn Ser Lys
 50 55 60
 Lys Met Met Tyr Ile Leu Val Cys Xaa
 65 70

<210> 97
 <211> 60
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals stop translation

<400> 97
 Met Leu Pro Tyr Phe Lys Trp Leu Leu His Leu Val Arg Leu Ser Phe
 1 5 10 15
 Val Ser Leu Ala Ser Pro Trp Asp Ser Thr Ala Gly Leu Gly Leu Lys
 20 25 30
 Leu Pro Asn Ile Tyr Gly Met Thr Ser Met Gly Trp Asp Pro Ser Pro
 35 40 45
 Gly Ala Arg Gly Gly Val Gly Thr Glu Lys Arg Xaa
 50 55 60

<210> 98
 <211> 49
 <212> PRT
 <213> Homo sapiens

000013453 032404

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals stop translation

<400> 98

Met Trp Leu Gln Thr Leu Pro Leu Phe Ala Thr Gly Cys Lys Ala Val
 1 5 10 15

Pro Trp Asn Cys Phe Gly Trp Cys Leu Thr Gln Glu Val Phe Ala Val
 20 25 30

Leu Gly Asp Leu Val Asn Ser Ala Asp Gln Val Asn Arg Leu Phe Phe
 35 40 45

Xaa

<210> 99
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (57)
 <223> Xaa equals stop translation

<400> 99

Met Arg Ser Ser Phe Leu Tyr Ala Ile Pro Ala Val Phe Phe Phe Leu
 1 5 10 15

Thr Gly Pro Cys Leu Arg Ile Asn Lys Ser Val Met Ser Glu Thr Lys
 20 25 30

Val Tyr Ser Ser Val Cys Arg Cys Val Ala Pro Pro Phe Ser Pro Ala
 35 40 45

Ala Pro His Ile Gln Ser Arg Ser Xaa
 50 55

<210> 100
 <211> 70
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals stop translation

<400> 100

Met Ala Cys Arg Ser Trp Cys Phe Thr Leu Leu Ala Asn Val Ser Phe
 1 5 10 15

Thr Leu Leu Leu Pro Val His Trp Gly Ser Ala Glu Ala Val Phe Ser

20 25 58 30

Val Ser Ile Thr Leu Gly Cys Arg Pro Pro Ser Ser Leu Ser Val Pro
 35 40 45

Leu Ser Arg Gly Arg Arg Asp Leu Gly Ser His Val Leu Ala Leu Val
 50 55 60

Ala Ser Leu Trp Lys Xaa
 65 70

<210> 101
 <211> 83
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals stop translation

<400> 101
 Met Ala Glu Thr Arg Gly Leu Cys Ser Val Cys Phe Cys Ala Leu Cys
 1 5 10 15

Leu Tyr Gly Ser Tyr Ala Ala Cys Pro Pro Cys Phe Ser Arg Glu Pro
 20 25 30

Arg Gln Arg Arg His His Gly Asn Asp Trp Val Arg Trp Lys Phe Arg
 35 40 45

Gly Pro Ala Leu Val Gly Arg Glu Ala Trp Leu Thr Ser Gln Ala Gln
 50 55 60

His Val Cys Gly Ser Leu Leu Cys Thr Val Ser Ser Ser Pro Lys Trp
 65 70 75 80

Glu Ser Xaa

<210> 102
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals stop translation

<400> 102
 Met Ser Ser Pro Cys Leu Phe Leu Ser Leu Thr Glu Asn Ile Phe Met
 1 5 10 15

Ser Phe Leu Ile Ala Gly Phe Gly Leu Phe Ile Ile Met Phe Ile Asn
 20 25 30

Thr Phe Asp Ser Thr Val Arg Asn Val Gly Xaa
 35 40

<210> 103

<211> 325

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (286)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (318)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 103

Met Ile Ala Glu Leu Val Ser Ser Ala Leu Gly Leu Ala Leu Tyr Leu
 1 5 10 15

Asn Thr Leu Ser Ala Asp Phe Cys Tyr Asp Asp Ser Arg Ala Ile Lys
 20 25 30

Thr Asn Gln Asp Leu Leu Pro Glu Thr Pro Trp Thr His Ile Phe Tyr
 35 40 45

Asn Asp Phe Trp Gly Thr Leu Leu Thr His Ser Gly Ser His Lys Ser
 50 55 60

Tyr Arg Pro Leu Cys Thr Leu Ser Phe Arg Leu Asn His Ala Ile Gly
 65 70 75 80

Gly Leu Asn Pro Trp Ser Tyr His Leu Val Asn Val Leu Leu His Ala
 85 90 95

Ala Val Thr Gly Leu Phe Thr Ser Phe Ser Lys Ile Leu Leu Gly Asp
 100 105 110

Gly Tyr Trp Thr Phe Met Ala Gly Leu Met Phe Ala Ser His Pro Ile
 115 120 125

His Thr Glu Ala Val Ala Gly Ile Val Gly Arg Ala Asp Val Gly Ala
 130 135 140

Ser Leu Phe Phe Leu Leu Ser Leu Leu Cys Tyr Ile Lys His Cys Ser
 145 150 155 160

Thr Arg Gly Tyr Ser Ala Arg Thr Trp Gly Trp Phe Leu Gly Ser Gly
 165 170 175

Leu Cys Ala Gly Cys Ser Met Leu Trp Lys Glu Gln Gly Val Thr Val
 180 185 190

Leu Ala Val Ser Ala Val Tyr Asp Val Phe Val Phe His Arg Leu Lys
 195 200 205

Leu Gln Leu Phe Phe Tyr Phe Pro Leu Tyr Asn Cys Ile Phe Asn Thr
 20 25 30

Ser Ile Ser Ile Leu Asn Arg Val Leu Val Lys Lys Arg Ser Thr Phe
 35 40 45

Xaa

<210> 106
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals stop translation

<400> 106
 Met Tyr Leu Leu His Ser Ile Leu Phe Met Leu Cys Leu Val Gly Met
 1 5 10 15

Val Glu Phe Asn Lys Ser Thr Arg Glu Cys Ile Leu Phe Lys Thr Leu
 20 25 30

Trp Leu Ile Pro Leu Phe Thr Tyr Lys Leu Ala Tyr Leu Cys Glu Lys
 35 40 45

Leu Lys Phe Val Lys Phe Cys Ala Ser Leu Leu Ile Ala Val Phe Asp
 50 55 60

His Xaa
 65

<210> 107
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals stop translation

<400> 107
 Met Thr Ala Phe Ile Thr Tyr Pro Leu Leu Phe Ile Cys Leu Pro Ser
 1 5 10 15

Val Ser His Phe Leu Pro Val Pro Thr Cys Leu Phe Pro Cys Glu Gly
 20 25 30

Leu Asn Cys Glu Pro Leu Arg Phe Asn Val Arg Ser Pro Xaa
 35 40 45

<210> 108
 <211> 74
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals stop translation

<400> 108
 Met Pro His Leu Asn His Ser Leu Phe Leu Phe Leu Ser Val Gly Cys
 1 5 10 15
 Ala Leu Ser Ala Gln Met Ala Phe His Gln Leu Asp Leu Glu Gln Pro
 20 25 30
 Glu Asp Ala Thr Leu Pro Ser Glu Pro Phe Phe His His Thr Val Val
 35 40 45
 Pro Gln Arg Ser Phe Ser Arg Ile Leu Val Asn Met Gly Gln Leu Ser
 50 55 60
 Glu Thr Leu Ala Glu Gln Gly Tyr Ile Xaa
 65 70

<210> 109
 <211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals stop translation

<400> 109
 Met Phe Pro Trp Cys Val Cys Val Ile Ala Cys Ile Ser Ala Val Thr
 1 5 10 15
 Pro Leu Ile Gln Gly Phe Thr Phe Cys Ser Phe Ser Tyr Pro Gln Tyr
 20 25 30
 Ser Thr Val Arg Tyr Phe Glu Arg Glu Thr Thr Leu Thr Leu Leu Leu
 35 40 45
 Leu Xaa
 50

<210> 110
 <211> 228
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (228)

<223> Xaa equals stop translation

<400> 110

Met Ala Ala Pro Ile Ile Gly Val Thr Pro Met Phe Ala Val Cys Phe
1 5 10 15

Phe Gly Phe Gly Leu Gly Lys Lys Leu Gln Gln Lys His Pro Glu Asp
20 25 30

Val Leu Ser Tyr Pro Gln Leu Phe Ala Ala Gly Met Leu Ser Gly Val
35 40 45

Phe Thr Thr Gly Ile Met Thr Pro Gly Glu Arg Ile Lys Cys Leu Leu
50 55 60

Gln Ile Gln Ala Ser Ser Gly Glu Ser Lys Tyr Thr Gly Thr Leu Asp
65 70 75 80

Cys Ala Lys Lys Leu Tyr Gln Glu Phe Gly Ile Arg Gly Ile Tyr Lys
85 90 95

Gly Thr Val Leu Thr Leu Met Arg Asp Val Pro Ala Ser Gly Met Tyr
100 105 110

Phe Met Thr Tyr Glu Trp Leu Lys Asn Ile Phe Thr Pro Glu Gly Lys
115 120 125

Arg Val Ser Glu Leu Ser Ala Pro Arg Ile Leu Val Ala Gly Gly Ile
130 135 140

Ala Gly Ile Phe Asn Trp Ala Val Ala Ile Pro Pro Asp Val Leu Lys
145 150 155 160

Ser Arg Phe Gln Thr Ala Pro Pro Gly Lys Tyr Pro Asn Gly Phe Arg
165 170 175

Asp Val Leu Arg Glu Leu Ile Arg Asp Glu Gly Val Thr Ser Leu Tyr
180 185 190

Lys Gly Phe Asn Ala Val Met Ile Arg Ala Phe Pro Ala Asn Ala Ala
195 200 205

Cys Phe Leu Gly Phe Glu Val Ala Met Lys Phe Leu Asn Trp Ala Thr
210 215 220

Pro Asn Leu Xaa
225

<210> 111

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals stop translation

00013153 032404

<400> 111

Met Thr Arg Ala Thr Thr Glu Phe Pro Ser Pro Lys Phe Ser Thr Leu
 1 5 10 15

Leu Val Leu Val Leu Ser Leu Leu Arg Ala His Ile Leu Ile Pro Lys
 20 25 30

Glu Pro Leu Gln Ser Ser Cys Leu Leu Lys Thr Leu Tyr Trp Ala Cys
 35 40 45

Ser Cys Asn Ser Asp Phe Ile Arg Cys Ile Leu Arg Glu Val Ser Gly
 50 55 60

Lys Ile Trp Arg Phe Ser Lys Thr Leu Xaa
 65 70

<210> 112

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals stop translation

<400> 112

Met Ile Tyr Phe Leu Cys Leu Ala Tyr Cys Lys Phe Phe Ile Leu Ile
 1 5 10 15

His Ser Ser Asn Ile Ile Ala Thr Lys Lys Cys Leu Tyr Leu Asp Gln
 20 25 30

Arg Gln Asp Phe Leu Cys Val Cys Phe Ala Xaa
 35 40

<210> 113

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (180)

<223> Xaa equals stop translation

<400> 113

Met Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro
 1 5 10 15

Trp Thr Arg Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu
 20 25 30

Cys His Asp Leu Arg Ser His Ser Ser Phe Gln Ala Ser Leu Thr Gly
 35 40 45

Arg Leu Leu Arg Ser Ser Gly Phe Leu Pro Ala Ser Gln Gln Ala Cys

50

55

65

60

Ala Lys Leu Tyr Ser Tyr Ser Leu Gln Gly Tyr Ser Trp Leu Gly Glu
65 70 75 80

Thr Leu Pro Leu Trp Gly Ser His Leu Leu Thr Val Val Arg Pro Ser
85 90 95

Leu Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser
100 105 110

Ala His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser
115 120 125

Leu Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu
130 135 140

Leu Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu
145 150 155 160

Leu Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Gly
165 170 175

Ala Leu Pro Xaa
180

<210> 114

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals stop translation

<400> 114

Met Val Trp Phe Ile Tyr Phe Val Leu Gln Gly Leu Phe Cys Pro Lys
1 5 10 15

Asn Glu Gly Ala Ser Pro Gly Leu Gln Phe Pro Thr Leu Ser Leu Ala
20 25 30

Gly His Ala Ser Pro Ala Leu Val Pro His Gly Met Gly Gly Xaa
35 40 45

<210> 115

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

114 47 PRT Homo sapiens

<400> 117

Ala Gln Thr Thr Thr Pro Gln Ser Leu Tyr Xaa
35 40

<213> Homo sapiens

<223> Xaa equals stop translation

Gln Pro Ile Ser Pro Ile Pro Gly Gly Val Ser Ser Ser Gly Leu Ser
180 185 190

Gly Cys Cys Ser Pro Leu Gly Leu Cys Pro Ser Ser Gly Gly Ser Arg

Met Trp Arg Arg Thr Trp Val Gly Ala Arg Ala Leu His Pro Xaa
 115 120 125

<210> 121
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (57)
 <223> Xaa equals stop translation

<400> 121
 Met Phe Leu Lys Val Leu Val Phe Leu Ile Phe Phe Ser Pro Phe Ser
 1 5 10 15

Ser Ser Leu Phe Ser Gly Glu Ala Val Arg Gly Arg Gly Ala Gly Leu
 20 25 30

Gly Leu Gly Ile Gly Arg Gly Trp Thr Ser Cys Leu Ser Val Leu Asn
 35 40 45

Gly Cys Asp Gly Ala Arg Ser His Xaa
 50 55

<210> 122
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals stop translation

<400> 122
 Met Trp Ser Ile Lys Leu Thr Cys Arg Leu Arg Gly Phe Trp Phe Trp
 1 5 10 15

Phe Trp Val Leu Phe Phe Cys Gly Gly Gly Ala Gly Ile Trp Lys Asn
 20 25 30

Leu Ala Leu Tyr Val Thr Glu Ile Phe Phe Ala Arg Thr Xaa
 35 40 45

<210> 123
 <211> 58
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (47)

<400> 123 :

Glu Pro Leu Ile Asp Pro Val Tyr Gly His Gly Ser Gln Ser Leu Ile
35 40 45

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Asn Leu Leu Leu Thr Gly His Ala Val Ser Asn Val Trp Asp Gly Asp
 50                      55                      60

Arg Glu Cys Ser Gly Met Lys Leu Leu Gly Ile His Glu Gln Ala Ala
 65                      70                      75                      80

Val Gly Phe Leu Thr Leu Met Glu Ala Leu Arg Tyr Cys Lys Val Gly
                      85                      90                      95

Ser Tyr Leu Lys Ser Pro Lys Phe Pro Ile Trp Ile Val Gly Ser Glu
          100                      105                      110

Thr His Leu Thr Val Phe Phe Ala Lys Asp Met Ala Leu Val Ala Pro
      115                      120                      125

Glu Ala Pro Ser Glu Gln Ala Arg Arg Val Phe Gln Thr Tyr Asp Pro
      130                      135                      140

Glu Asp Asn Gly Phe Ile Pro Asp Ser Leu Leu Glu Asp Val Met Lys
      145                      150                      155                      160

Ala Leu Asp Leu Val Ser Asp Pro Glu Tyr Ile Asn Leu Met Lys Asn
          165                      170                      175

Lys Leu Asp Pro Glu Gly Leu Gly Ile Ile Leu Leu Gly Pro Phe Leu
      180                      185                      190

Gln Glu Phe Phe Pro Asp Gln Gly Ser Ser Gly Pro Glu Ser Phe Thr
      195                      200                      205

Val Tyr His Tyr Asn Gly Leu Lys Gln Ser Asn Tyr Asn Glu Lys Val
      210                      215                      220

Met Tyr Val Glu Gly Thr Ala Val Val Met Gly Phe Glu Asp Pro Met
      225                      230                      235                      240

Leu Gln Thr Asp Asp Thr Pro Ile Lys Arg Cys Leu Gln Thr Lys Trp
          245                      250                      255

Pro Tyr Ile Glu Leu Leu Trp Thr Thr Asp Arg Ser Pro Ser Leu Asn
      260                      265                      270

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Xaa

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<210> 126
<211> 281
<212> PRT
<213> Homo sapiens

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<220>
<221> SITE
<222> (281)
<223> Xaa equals stop translation

```

```

<400> 126
Met Ala Pro Ser Gly Ser Leu Ala Val Pro Leu Ala Val Leu Val Leu

```

1	5	72	10	15											
Leu	Leu	Trp	Gly	Ala	Pro	Trp	Thr	His	Gly	Arg	Arg	Ser	Asn	Val	Arg
			20						25				30		
Val	Ile	Thr	Asp	Glu	Asn	Trp	Arg	Glu	Leu	Leu	Glu	Gly	Asp	Trp	Met
		35					40					45			
Ile	Glu	Phe	Tyr	Ala	Pro	Trp	Cys	Pro	Ala	Cys	Gln	Asn	Leu	Gln	Pro
	50					55					60				
Glu	Trp	Glu	Ser	Phe	Ala	Glu	Trp	Gly	Glu	Asp	Leu	Glu	Val	Asn	Ile
	65				70					75					80
Ala	Lys	Val	Asp	Val	Thr	Glu	Gln	Pro	Gly	Leu	Ser	Gly	Arg	Phe	Ile
			85						90					95	
Ile	Thr	Ala	Leu	Pro	Thr	Ile	Tyr	His	Cys	Lys	Asp	Gly	Glu	Phe	Arg
		100						105					110		
Arg	Tyr	Gln	Gly	Pro	Arg	Thr	Lys	Lys	Asp	Phe	Ile	Asn	Phe	Ile	Ser
		115					120					125			
Asp	Lys	Glu	Trp	Lys	Ser	Ile	Glu	Pro	Val	Ser	Ser	Trp	Phe	Gly	Pro
	130					135						140			
Gly	Ser	Val	Leu	Met	Ser	Ser	Met	Ser	Ala	Leu	Phe	Gln	Leu	Ser	Met
	145				150					155					160
Trp	Ile	Arg	Thr	Cys	His	Asn	Tyr	Phe	Ile	Glu	Asp	Leu	Gly	Leu	Pro
			165					170					175		
Val	Trp	Gly	Ser	Tyr	Thr	Val	Phe	Ala	Leu	Ala	Thr	Leu	Phe	Ser	Gly
		180						185					190		
Leu	Leu	Leu	Gly	Leu	Cys	Met	Ile	Phe	Val	Ala	Asp	Cys	Leu	Cys	Pro
		195					200					205			
Ser	Lys	Arg	Arg	Arg	Pro	Gln	Pro	Tyr	Pro	Tyr	Pro	Ser	Lys	Lys	Leu
	210					215					220				
Leu	Ser	Glu	Ser	Ala	Gln	Pro	Leu	Lys	Lys	Val	Glu	Glu	Glu	Gln	Glu
	225				230					235					240
Ala	Asp	Glu	Glu	Asp	Val	Ser	Glu	Glu	Glu	Ala	Glu	Ser	Lys	Glu	Gly
			245						250					255	
Thr	Asn	Lys	Asp	Phe	Pro	Gln	Asn	Ala	Ile	Arg	Gln	Arg	Ser	Leu	Gly
		260						265					270		
Pro	Ser	Leu	Ala	Thr	Asp	Lys	Ser	Xaa							
	275						280								

<210> 127
 <211> 215
 <212> PRT
 <213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Val	Tyr	Leu	Glu	Asp	Thr	Asp
	210					215

<213> Homo sapiens

```
<220>
<221> SITE
<222> (211)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 128
Met Pro Arg Gly Asp Ser Glu Gln Val Arg Tyr Cys Ala Arg Phe Ser
1 5 10 15

Leu Ile Gly Ala Leu Val Leu Ser Val Gly Ile Tyr Ala Glu Val Glu
35 40 45

Ile Leu Ile Leu Leu Gly Val Val Met Phe Met Val Ser Phe Ile Gly
65 70 75 80

Tyr Ile Leu Gly Ile Cys Leu Ile Met Glu Leu Ile Gly Gly Val Val
100 105 110

Arg Arg Gly Ile Glu Asn Tyr Tyr Asp Asp Leu Asp Phe Lys Asn Ile
130 135 140

Arg Asp Trp Ser Lys Asn Gln Tyr His Asp Cys Ser Ala Pro Gly Pro
165 170 175

Val	Val	Asn	Thr	Met	Cys	Gly	Tyr	Lys	Thr	Ile	Asp	Lys	Glu	Arg	Phe
		195					200					205			

Ile Trp Phe Met Asp Asn Tyr Thr Ile Met Ala Gly Ile Leu Leu Gly

Ile Leu Glu Tyr Leu Leu Gln Cys Leu Lys Leu Gln Ser His Pro Thr
225 230 235 240

Val Gly Gln Val Gln Arg Gly Pro Cys Thr Ala Leu Leu His Lys Glu

60

<213> Homo sapiens

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals stop translation

<400> 133

Met Leu Phe Leu Arg Ser Ile Leu Trp Leu Ser Ser Leu Phe Phe Cys
 1 5 10 15

His Phe Val Pro Thr Ser His Ser Leu Gly Phe Gln Asn Ile Thr Ser
 20 25 30

Val Tyr Asn Ala Thr Leu Gln Gln Thr Val Phe Gln His Asp Ser Lys
 35 40 45

Thr Val Thr Thr Cys Phe Thr Xaa
 50 55

<210> 134
 <211> 76
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (76)
 <223> Xaa equals stop translation

<400> 134

Met Phe Cys Val Phe Ile Leu Thr Phe Phe Met Val Phe Asn Leu Trp
 1 5 10 15

Leu Ala Ala Thr Val Tyr His Val Tyr Gly Thr Cys Lys Lys Val Leu
 20 25 30

Asp Ile Gln Ile Leu Arg Asp Glu Ile Thr Phe Thr Tyr Lys Asn His
 35 40 45

Phe Tyr Cys Gly Leu Thr Ala Leu Ser Ser Arg Ile Leu Asn Asp Ile
 50 55 60

Thr Asn Ile Leu His Val Ile Cys Ser Phe Glu Xaa
 65 70 75

<210> 135
 <211> 335
 <212> PRT
 <213> Homo sapiens

<400> 135

Met Met Ala Arg Gln Lys Gly Ile Phe Tyr Leu Thr Leu Phe Leu Ile
 1 5 10 15

Leu Gly Thr Cys Thr Leu Phe Phe Ala Phe Glu Cys Arg Tyr Leu Ala
 20 25 30

Val Gln Leu Ser Pro Ala Ile Pro Val Phe Ala Ala Met Leu Phe Leu

45

Pro Glu Pro Pro Glu Pro Pro Gln Glu Ala Ala Glu Ala Glu Lys
325 330 335

<210> 136
<211> 66


```
<220>
<221> SITE
<222> (66)
<223> Xaa equals stop translation
```

Met Phe His Cys Trp Ser Leu Phe Leu Tyr Tyr Phe Ser Leu Ser Leu
1 5 10 15

Gln Ser Arg Asp Val Pro Cys Gln Gly Ala Gln Gln Ser His Pro Lys
35 40 45

Phe His Leu Asp His His Leu Pro Asp Tyr Pro His Thr Asn Leu Leu
50 55 60

```
<210> 137
<211> 63
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (63)
<223> Xaa equals stop translation
```

Met Ala Val Arg Cys Ile Leu Ala Gly Gly Cys Leu Pro Ala Val Arg
1 5 10 15

Leu Ile Ser Cys Val Phe Arg Cys Val Ala Gly Gly Leu Gly Trp Gly
35 40 45

Gly Gly Ala Ser Glu Gln Cys Val Glu Ser Leu Val Val Thr Xaa
50 55 60

```
<210> 138
<211> 379
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (379)
<223> Xaa equals stop translation
```

Met Ser Lys Glu Pro Leu Ile Leu Trp Leu Met Ile Glu Phe Trp Trp
1 5 10 15

Leu Tyr Leu Thr Pro Val Thr Ser Glu Thr Val Val Thr Glu Val Leu
20 25 30

Gly His Arg Val Thr Leu Pro Cys Leu Tyr Ser Ser Trp Ser His Asn
35 40 45

Ser Asn Ser Met Cys Trp Gly Lys Asp Gln Cys Pro Tyr Ser Gly Cys
50 55 60

Lys Glu Ala Leu Ile Arg Thr Asp Gly Met Arg Val Thr Ser Arg Lys
65 70 75 80

Ser Ala Lys Tyr Arg Leu Gln Gly Thr Ile Pro Arg Gly Asp Val Ser
85 90 95

Leu Thr Ile Leu Asn Pro Ser Glu Ser Asp Ser Gly Val Tyr Cys Cys
100 105 110

Arg Ile Glu Val Pro Gly Trp Phe Asn Asp Val Lys Ile Asn Val Arg
115 120 125

Leu Asn Leu Gln Arg Ala Ser Thr Thr Thr His Arg Thr Ala Thr Thr
130 135 140

Thr Thr Arg Arg Thr Thr Thr Thr Ser Pro Thr Thr Thr Arg Gln Met
145 150 155 160

Thr Thr Thr Pro Ala Ala Leu Pro Thr Thr Val Val Thr Thr Pro Asp
165 170 175

Leu Thr Thr Gly Thr Pro Leu Gln Met Thr Thr Ile Ala Val Phe Thr
180 185 190

Thr Ala Asn Thr Cys Leu Ser Leu Thr Pro Ser Thr Leu Pro Glu Glu
 . 195 200 205

Ala Thr Gly Leu Leu Thr Pro Glu Pro Ser Lys Glu Gly Pro Ile Leu
210 215 220

Thr Ala Glu Ser Glu Thr Val Leu Pro Ser Asp Ser Trp Ser Ser Ala
225 230 235 240

Glu Ser Thr Ser Ala Asp Thr Val Leu Leu Thr Ser Lys Glu Ser Lys
245 250 255

Val Trp Asp Leu Pro Ser Thr Ser His Val Ser Met Trp Lys Thr Ser
260 265 270

Asp Ser Val Ser Ser Pro Gln Pro Gly Ala Ser Asp Thr Ala Val Pro
275 280 285

Glu Gln Asn Lys Thr Thr Lys Thr Gly Gln Met Asp Gly Ile Pro Met
290 295 300

Ser Met Lys Asn Glu Met Pro Ile Ser Gln Leu Leu Met Ile Ile Ala

000133 032404

305 310 315 320
Pro Ser Leu Gly Phe Val Leu Phe Ala Leu Phe Val Ala Phe Leu Leu
 325 330 335
Arg Gly Lys Leu Met Glu Thr Tyr Cys Ser Gln Lys His Thr Arg Leu
 340 345 350
Asp Tyr Ile Gly Asp Ser Lys Asn Val Leu Asn Asp Val Gln His Gly
 355 360 365
Arg Glu Asp Glu Asp Gly Leu Phe Thr Leu Xaa
 370 375

<210> 139
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals stop translation

<400> 139
Met Ile His Arg Ala Arg Ser Leu Ala Ala Leu Ser Ser Leu Met Leu
 1 5 10 15
Tyr Thr Lys Leu Val Gln Pro Val Ala Cys Ile Ser His Val Ala Gln
 20 25 30
Asp Gly Phe Glu Tyr Gly Pro Thr Gln Ile His Lys Leu Ser Xaa
 35 40 45

<210> 140
<211> 206
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (206)
<223> Xaa equals stop translation

<400> 140
Met Lys Thr Gly Leu Val Leu Val Val Leu Gly His Val Ser Phe Ile
 1 5 10 15
Thr Ala Ala Leu Phe His Gly Thr Val Leu Arg Tyr Val Gly Thr Pro
 20 25 30
Gln Asp Ala Val Ala Leu Gln Tyr Cys Val Val Asn Ile Leu Ser Val
 35 40 45
Thr Ser Ala Ile Val Val Ile Thr Ser Gly Ile Ala Ala Ile Val Leu
 50 55 60

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84

Ser Arg Tyr Leu Pro Ser Thr Pro Leu Arg Trp Thr Val Phe Ser Ser
65 70 75 80

Ser Val Ala Cys Ala Leu Leu Ser Leu Thr Cys Ala Leu Gly Leu Leu
85 90 95

Ala Ser Ile Ala Met Thr Phe Ala Thr Gln Gly Lys Ala Leu Leu Ala
100 105 110

Ala Cys Thr Phe Gly Ser Ser Glu Leu Leu Ala Leu Ala Pro Asp Cys
115 120 125

Pro Phe Asp Pro Thr Arg Ile Tyr Ser Ser Ser Leu Cys Leu Trp Gly
130 135 140

Ile Ala Leu Val Leu Cys Val Ala Glu Asn Val Phe Ala Val Arg Cys
145 150 155 160

Ala Gln Leu Thr His Gln Leu Leu Glu Leu Arg Pro Trp Trp Gly Lys
165 170 175

Ser Ser His His Met Met Arg Glu Asn Pro Glu Leu Val Glu Gly Arg
180 185 190

Asp Leu Leu Ser Cys Thr Ser Ser Glu Pro Leu Thr Leu Xaa
195 200 205

<210> 141

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (221)

<223> Xaa equals stop translation

<400> 141

Met Pro Pro Arg Arg Pro Trp Asp Arg Glu Ala Gly Thr Leu Gln Val
1 5 10 15

Leu Gly Ala Leu Ala Val Leu Trp Leu Gly Ser Val Ala Leu Ile Cys
20 25 30

Leu Leu Trp Gln Val Pro Arg Pro Pro Thr Trp Gly Gln Val Gln Pro
35 40 45

Lys Asp Val Pro Arg Ser Trp Glu His Gly Phe Gln Pro Ser Leu Gly
50 55 60

Ala Pro Gly Ser Arg Gly Pro Gly Ser Arg Gly Thr Pro Ala Ser Leu
65 70 75 80

Ser Leu Trp Lys Ala Ser Pro Arg Thr Cys His Leu Gln Pro Ala Ala
85 90 95

Pro Leu Pro Ser Leu Trp Ala Arg Pro Gly Cys Ser Cys Trp Thr Leu
100 105 110

<400> 143
Met Leu Leu Ile Ser Ala Val Gln Val Phe Ile Leu Leu Ser Pro Ser


```
<210> 146
<211> 177
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (177)
<223> Xaa equals stop translation
```

<400> 146
Met Ala Ser Val Phe Val Cys Leu Leu Leu Ser Gly Leu Ala Val Phe
1 5 10 15

Phe Leu Phe Pro Arg Ser Ile Asp Val Lys Tyr Ile Gly Val Lys Ser
20 25 30

Ala Tyr Val Ser Tyr Asp Val Gln Lys Arg Thr Ile Tyr Leu Asn Ile
 35 40 45

Thr Asn Thr Leu Asn Ile Thr Asn Asn Asn Tyr Tyr Ser Val Glu Val
50 55 60

Glu Asn Ile Thr Ala Gln Val Gln Phe Ser Lys Thr Val Ile Gly Lys
65 70 75 80

Ala Arg Leu Asn Asn Ile Ser Ile Ile Gly Pro Leu Asp Met Lys Gln
85 90 95

Ile Asp Tyr Thr Val Pro Thr Val Ile Ala Glu Glu Met Ser Tyr Met
100 105 110

Tyr Asp Phe Cys Thr Leu Ile Ser Ile Lys Val His Asn Ile Val Leu
115 120 125

Met Met Gln Val Thr Val Thr Thr Thr Tyr Phe Gly His Ser Glu Gln
130 135 140

Ile Ser Gln Glu Arg Tyr Gln Tyr Val Asp Cys Gly Arg Asn Thr Thr
145 150 155 160

Tyr Gln Leu Gly Gln Ser Glu Tyr Leu Asn Val Leu Gln Pro Gln Gln
165 170 175

Xaa

```
<210> 147
<211> 120
<212> PRT
<213> Homo sapiens
```

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

<400> 147

<400> 148

Ala Leu Asp Thr Leu Leu Ile Leu Gly Asn Val Ser Glu Phe Gln Arg

95

Arg Val Leu Glu Ala Val Asn Gly Thr Asp Ala Arg Leu Lys Cys Thr

<210> 151
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 151
 Gly Ser Phe Leu Gly Ser Thr Asn Arg Asp Arg Glu Ser Leu Ala Phe
 1 5 10 15

Gln Phe Cys Ala Gly
 20

<210> 152
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 152
 His Glu Val Glu Glu Lys Phe Asn Ser Pro Leu Met Gln Thr Glu Gly
 1 5 10 15

Asp Ile Gln

<210> 153
 <211> 423
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (193)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (215)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (242)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (361)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (378)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 153
 Ile Asn Phe Ser Glu Met Thr Leu Gln Glu Leu Val His Lys Ala Ala

Ala Leu Gly Gly Glu Ala Phe Pro Ser Leu Thr Val Leu Arg Ser Trp
325 330 335

Glu Val Ser Ser Trp Ala Thr Ile Xaa Arg Ile Pro Glu Lys Thr Leu
355 360 365

Leu Gly Thr Val Val Glu Val Arg Asp Thr Asn Gly Phe Thr Ile Gln
385 390 395 400

Glu Phe Phe Phe Gln Glu Lys
420

<213> Homo sapiens

Ser Cys Tyr Met Asp Arg Val Ala Val Cys Phe Asp Glu Cys Asn Asn
20 25 30

<213> Homo sapiens

Pro Ser Trp Ile Leu Gly Ile Leu Gln Val Pro Ala Ala Tyr Val
35 40 45

<213> Homo sapiens

<400> 156

Pro Ile Glu Pro Asp Ser Pro Pro Ser Leu Ser Thr His Phe Met Lys
 1 5 10 15

Lys Cys Asn Leu Lys Tyr Ile Leu Val Glu Lys Lys Gln Ile Asn Lys
 20 25 30

Phe Lys Ser Phe His Glu Thr Leu Leu Asn Tyr Asp Thr Phe
 35 40 45

<210> 157

<211> 47

<212> PRT

<213> Homo sapiens

<400> 157

Thr Val Glu His Asn Asp Leu Val Leu Phe Arg Leu His Trp Lys Asn
 1 5 10 15

Thr Glu Val Asn Leu Met Leu Asn Asp Gly Lys Glu Lys Tyr Glu Lys
 20 25 30

Glu Lys Ile Lys Ser Ile Ser Ser Glu His Val Asn Glu Glu Lys
 35 40 45

<210> 158

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 158

Ala Glu Glu His Met Asp Leu Arg Xaa Lys His Cys Leu Ala Tyr Val
 1 5 10 15

Leu His Thr Ser Gly Thr Thr Gly Ile Pro Lys Ile Val Arg Xaa Pro
 20 25 30

His Lys Cys Ile Val Pro Asn Ile Gln His Phe Arg Val Leu
 35 40 45

<210> 159

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 159

Phe	Asp	Ile	Thr	Gln	Glu	Asp	Val	Leu	Phe	Leu	Xaa	Ser	Pro	Leu	Thr
1					5				10					15	

Phe	Asp	Pro	Ser	Val	Val	Glu	Ile	Phe	Leu	Ala	Leu	Ser	Ser	Gly	Ala
			20					25						30	

Ser	Leu	Leu	Ile	Val	Pro	Thr	Ser	Val	Lys	Leu	Leu	Pro	Ser	Lys	Leu
	35						40						45		

<210> 160

<211> 46

<212> PRT

<213> Homo sapiens

<400> 160

Ala	Ser	Val	Leu	Phe	Ser	His	His	Arg	Val	Thr	Val	Leu	Gln	Ala	Thr
1				5					10					15	

Pro	Thr	Leu	Leu	Arg	Arg	Phe	Gly	Ser	Gln	Leu	Ile	Lys	Ser	Thr	Val
			20					25					30		

Leu	Ser	Ala	Thr	Thr	Ser	Leu	Arg	Val	Leu	Ala	Leu	Gly	Gly
	35						40					45	

<210> 161

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 161

Glu	Ala	Phe	Pro	Ser	Leu	Thr	Val	Leu	Arg	Ser	Trp	Arg	Gly	Glu	Gly
1				5					10					15	

Asn	Lys	Thr	Gln	Ile	Phe	Asn	Val	Tyr	Gly	Ile	Thr	Glu	Val	Ser	Ser
			20					25						30	

Trp	Ala	Thr	Ile	Xaa	Arg	Ile	Pro	Glu	Lys	Thr	Leu	Asn	Ser	Thr
	35						40					45		

<210> 162

<211> 52

<212> PRT

<213> Homo sapiens

TOF260"ESTF050

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 162

Leu Lys Cys Glu Leu Pro Xaa Gln Leu Gly Phe Pro Leu Leu Gly Thr
 1 5 10 15

Val Val Glu Val Arg Asp Thr Asn Gly Phe Thr Ile Gln Glu Gly Ser
 20 25 30

Gly Gln Val Phe Leu Gly Cys Phe Ile Phe Val Asp Trp Glu Phe Phe
 35 40 45

Phe Gln Glu Lys
 50

<210> 163

<211> 43

<212> PRT

<213> Homo sapiens

<400> 163

Glu Ala Lys Ala Gln Phe Trp Leu Leu His Ser Tyr Leu Phe Cys His
 1 5 10 15

Ser Ser Asn Val Pro Asp Leu Leu Arg Pro Arg Met Thr Asn Asp Ser
 20 25 30

Glu Gly Lys Met Gly Phe Lys His Pro Lys Ile
 35 40

<210> 164

<211> 40

<212> PRT

<213> Homo sapiens

<400> 164

Gly Thr Ser Gly Asp Gly Ala Lys Met Ile Ser Gly His Leu Leu Gln
 1 5 10 15

Glu Pro Thr Gly Ser Pro Val Val Ser Glu Glu Pro Leu Asp Leu Leu
 20 25 30

Pro Thr Leu Asp Leu Arg Gln Glu
 35 40

<210> 165

<211> 396

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

101260 ESTE F050


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<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (211)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (222)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (224)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (227)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (280)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 165

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Leu Thr Thr Glu Glu Xaa Cys Met Leu Gly Ser Ala Leu Cys Pro Phe
1 5 10 15

Gln Gly Asn Phe Thr Ile Ile Leu Tyr Gly Arg Ala Asp Glu Gly Ile
20 25 30

Gln Pro Asp Pro Tyr Tyr Gly Leu Lys Tyr Ile Gly Val Gly Lys Gly
35 40 45

Gly Ala Leu Glu Leu His Gly Xaa Lys Lys Leu Ser Trp Thr Phe Leu
50 55 60

Asn Lys Xaa Leu His Pro Gly Gly Met Ala Glu Gly Gly Tyr Phe Phe
65 70 75 80

Glu Arg Ser Trp Gly His Arg Gly Val Ile Val His Val Ile Asp Pro
85 90 95

Lys Ser Gly Thr Val Ile His Ser Asp Arg Phe Asp Thr Tyr Arg Ser
100 105 110

Xaa Lys Glu Ser Glu Arg Leu Val Gln Tyr Leu Asn Ala Val Pro Asp
115 120 125

Gly Xaa Ile Leu Ser Val Ala Val Xaa Asp Xaa Gly Ser Arg Asn Leu
130 135 140

Asp Asp Met Ala Arg Lys Ala Met Thr Lys Leu Gly Ser Lys His Phe
145 150 155 160

Leu His Leu Gly Phe Arg His Pro Trp Ser Phe Leu Thr Val Lys Gly
165 170 175

Asn Pro Ser Ser Ser Val Glu Asp His Ile Glu Tyr His Gly His Arg
180 185 190

Gly Ser Ala Ala Ala Arg Val Phe Lys Leu Phe Gln Thr Glu His Gly
195 200 205

Glu Tyr Xaa Asn Val Ser Leu Ser Ser Glu Trp Val Gln Xaa Val Xaa
210 215 220

Trp Thr Xaa Trp Phe Asp His Asp Lys Val Ser Gln Thr Lys Gly Gly
225 230 235 240

Glu Lys Ile Ser Asp Leu Trp Lys Ala His Pro Gly Lys Ile Cys Asn
245 250 255

Arg Pro Ile Asp Ile Gln Ala Thr Thr Met Asp Gly Val Asn Leu Ser
260 265 270

Thr Glu Val Val Tyr Lys Lys Xaa Gln Asp Tyr Arg Phe Ala Cys Tyr
275 280 285

Asp Arg Gly Arg Ala Cys Arg Ser Tyr Arg Val Arg Phe Leu Cys Gly
290 295 300

Lys Pro Val Arg Pro Lys Leu Thr Val Thr Ile Asp Thr Asn Val Asn
305 310 315 320

Lys	Pro	Val	Arg	Pro	Lys	Leu	Thr	Val	Thr	Ile	Asp	Thr	Asn	Val	Asn
305					310					315					320

Trp Thr Phe Leu Asn Lys Xaa Leu His Pro Gly Gly Met Ala Glu Gly
20 25 30


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<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 172

Ile Gln Ala Thr Thr Met Asp Gly Val Asn Leu Ser Thr Glu Val Val
 1 5 10 15

Tyr Lys Lys Xaa Gln Asp Tyr Arg Phe Ala Cys Tyr Asp Arg Gly Arg
 20 25 30

Ala Cys Arg Ser Tyr Arg Val Arg Phe Leu Cys
 35 40

<210> 173

<211> 45

<212> PRT

<213> Homo sapiens

<400> 173

Gly Lys Pro Val Arg Pro Lys Leu Thr Val Thr Ile Asp Thr Asn Val
 1 5 10 15

Asn Ser Thr Ile Leu Asn Leu Glu Asp Asn Val Gln Ser Trp Lys Pro
 20 25 30

Gly Asp Thr Leu Val Ile Ala Ser Thr Asp Tyr Ser Met
 35 40 45

<210> 174

<211> 48

<212> PRT

<213> Homo sapiens

<400> 174

Tyr Gln Ala Glu Glu Phe Gln Val Leu Pro Cys Arg Ser Cys Ala Pro
 1 5 10 15

Asn Gln Val Lys Val Ala Gly Lys Pro Met Tyr Leu His Ile Gly Gly
 20 25 30

Arg Arg Gly Arg Glu Ser Arg Val Asp Glu Leu Thr Ser Arg Arg Pro
 35 40 45

<210> 175

<211> 24

<212> PRT

<213> Homo sapiens

<400> 175

Gly Thr Arg Asn Gly Trp Val Phe Phe Lys Gln Leu Leu Pro Gln His
 1 5 10 15

Phe Asp Ile Arg Tyr Ala Asn Leu
 20

<400> 176

Ser Thr Leu Gly Pro Pro Cys Arg Gly Thr Pro Ser Thr Leu Arg Pro
20 25 30

<210> 177

<211> 25

<212> PRT

<213> Homo sapiens

<400> 177

Gln Ser Lys Thr Pro Asp Pro Val Ser Lys Lys Lys Phe Pro Ser Ser
1 5 10 15

Gln Gly Val Val Glu Ala Glu Ser Val
20 25

<210> 178

<211> 348

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (309)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (341)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 178

Cys Phe. Cys Phe Leu Leu Pro Leu Leu Pro Ser Arg Trp Glu Pro Ser
1 5 10 15

Arg Arg Glu Gly Gly Gly Glu Met Ile Ala Glu Leu Val Ser Ser Ala
20 25 30

Leu Gly Leu Ala Leu Tyr Leu Asn Thr Leu Ser Ala Asp Phe Cys Tyr
35 40 45

Asp Asp Ser Arg Ala Ile Lys Thr Asn Gln Asp Leu Leu Pro Glu Thr
50 55 60

Pro Trp Thr His Ile Phe Tyr Asn Asp Phe Trp Gly Thr Leu Leu Thr

Cys Phe Cys Phe Leu Leu Pro Leu Leu Pro Ser Arg Trp Glu Pro Ser
1 5 10 15

Arg Arg Glu Gly Gly Gly Glu Met Ile Ala Glu Leu Val Ser Ser Ala
20 25 30

Leu Gly Leu Ala Leu Tyr Leu Asn Thr Leu Ser
35 40

<211> 44

<212> PRT

<213> Homo sapiens

Ala Asp Phe Cys Tyr Asp Asp Ser Arg Ala Ile Lys Thr Asn Gln Asp
1 5 10 15

Leu Leu Pro Glu Thr Pro Trp Thr His Ile Phe Tyr Asn Asp Phe Trp
20 25 30

Gly Thr Leu Leu Thr His Ser Gly Ser His Lys Ser
35 40

<211> 43

<212> PRT

<213> Homo sapiens

Tyr Arg Pro Leu Cys Thr Leu Ser Phe Arg Leu Asn His Ala Ile Gly
1 5 10 15

Gly Leu Asn Pro Trp Ser Tyr His Leu Val Asn Val Leu Leu His Ala
20 25 30

Ala Val Thr Gly Leu Phe Thr Ser Phe Ser Lys
35 40

<211> 44

<212> PRT

<213> Homo sapiens

Ile Leu Leu Gly Asp Gly Tyr Trp Thr Phe Met Ala Gly Leu Met Phe
1 5 10 15

Ala Ser His Pro Ile His Thr Glu Ala Val Ala Gly Ile Val Gly Arg
20 25 30

Ala Asp Val Gly Ala Ser Leu Phe Phe Leu Leu Ser
35 40

<210> 183
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 183
 Leu Leu Cys Tyr Ile Lys His Cys Ser Thr Arg Gly Tyr Ser Ala Arg
 1 5 10 15
 Thr Trp Gly Trp Phe Leu Gly Ser Gly Leu Cys Ala Gly Cys Ser Met
 20 25 30
 Leu Trp Lys Glu Gln Gly Val Thr Val Leu Ala
 35 40

<210> 184
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 184
 Val Ser Ala Val Tyr Asp Val Phe Val Phe His Arg Leu Lys Ile Lys
 1 5 10 15
 Gln Ile Leu Pro Thr Ile Tyr Lys Arg Lys Asn Leu Ser Leu Phe Leu
 20 25 30
 Ser Ile Ser Leu Leu Ile Phe Trp Gly Ser Ser Leu Leu Gly Ala
 35 40 45

<210> 185
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 185
 Arg Leu Tyr Trp Met Gly Asn Lys Pro Pro Ser Phe Ser Asn Ser Asp
 1 5 10 15
 Asn Pro Ala Ala Asp Ser Asp Ser Leu Leu Thr Arg Thr Leu Thr Phe
 20 25 30
 Phe Tyr Leu Pro Thr Lys Asn Leu Trp Leu Leu
 35 40

<210> 186
 <211> 41
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>

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<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 186

Leu Xaa Pro Asp Thr Leu Ser Phe Glu Trp Ser Met Asp Ala Val Pro
1 5 10 15

Leu Leu Lys Thr Val Cys Asp Trp Arg Asn Leu His Thr Val Gly Leu
20 25 30

Leu Xaa Trp Asp Ser Phe Ser Leu Ala
35 40

<210> 187

<211> 24

<212> PRT

<213> Homo sapiens

<400> 187

His Asn Val Phe Lys Val Tyr Ser Cys Cys Ser Lys Val Arg Asn Cys
1 5 10 15

Phe Ser Phe Lys Glu Lys Val Ser
20

<210> 188

<211> 11

<212> PRT

<213> Homo sapiens

<400> 188

Asn Cys Met His Gly Lys Ile Thr Pro Phe Gln
1 5 10

<210> 189

<211> 40

<212> PRT

<213> Homo sapiens

<400> 189

Glu Gln Ile Pro Lys Lys Val Gln Lys Ser Leu Gln Glu Thr Ile Gln
1 5 10 15

Ser Leu Lys Leu Thr Asn Gln Glu Leu Leu Arg Lys Gly Ser Ser Asn
20 25 30

Asn Gln Asp Val Val Ser Cys Asp
35 40

<210> 190

<211> 219

<212> PRT

<213> Homo sapiens

RefSeq:CEP60

108

<400> 190

Glu Gln Ile Pro Lys Lys Val Gln Lys Ser Leu Gln Glu Thr Ile Gln
1 5 10 15

Ser Leu Lys Leu Thr Asn Gln Glu Leu Leu Arg Lys Gly Ser Ser Asn
20 25 30

Asn Gln Asp Val Val Ser Cys Asp Met Ala Cys Lys Gly Leu Leu Gln
35 40 45

Gln Val Gln Gly Pro Arg Leu Pro Trp Thr Arg Leu Leu Leu Leu Leu
50 55 60

Leu Val Phe Ala Val Gly Phe Leu Cys His Asp Leu Arg Ser His Ser
65 70 75 80

Ser Phe Gln Ala Ser Leu Thr Gly Arg Leu Leu Arg Ser Ser Gly Phe
85 90 95

Leu Pro Ala Ser Gln Gln Ala Cys Ala Lys Leu Tyr Ser Tyr Ser Leu
100 105 110

Gln Gly Tyr Ser Trp Leu Gly Glu Thr Leu Pro Leu Trp Gly Ser His
115 120 125

Leu Leu Thr Val Val Arg Pro Ser Leu Gln Leu Ala Trp Ala His Thr
130 135 140

Asn Ala Thr Val Ser Phe Leu Ser Ala His Cys Ala Ser His Leu Ala
145 150 155 160

Trp Phe Gly Asp Ser Leu Thr Ser Leu Ser Gln Arg Leu Gln Ile Gln
165 170 175

Leu Pro Asp Ser Val Asn Gln Leu Leu Arg Tyr Leu Arg Glu Leu Pro
180 185 190

Leu Leu Phe His Gln Asn Val Leu Leu Pro Leu Trp His Leu Leu Leu
195 200 205

Glu Ala Leu Ala Trp Ala Gln Gly Ala Leu Pro
210 215

<210> 191

<211> 23

<212> PRT

<213> Homo sapiens

<400> 191

Gly Thr Ser Phe Cys Ser His Leu Pro Ser Gln Arg Pro Leu His Leu
1 5 10 15

Ser Gly Ser Ser Cys Leu Val
20

<210> 192

<211> 69

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<213> Homo sapiens

Gly Thr Ser Phe Cys Ser His Leu Pro Ser Gln Arg Pro Leu His Leu
1 5 10 15

Ser Gly Ser Ser Cys Leu Val Met Val Trp Phe Ile Tyr Phe Val Leu
20 25 30

Gln Gly Leu Phe Cys Pro Lys Asn Glu Gly Ala Ser Pro Gly Leu Gln
35 40 45

Phe Pro Thr Leu Ser Leu Ala Gly His Ala Ser Pro Ala Leu Val Pro
50 55 60

His Gly Met Gly Gly
65

<211> 58

<213> Homo sapiens

Phe Cys Ile Gln Val Pro Gly Phe Val Ser Cys Trp Tyr Ala Ser Pro
1 5 10 15

Asp Arg Pro Ser Cys Ile His Val Thr Arg Leu Tyr Leu Leu Gly Leu
20 25 30

Ser Gln Ile Leu Ala Ser Tyr Ser Ser Ser Cys Pro Asn Ser Ile Leu
35 40 45

Ser Leu Arg Asn Gly Gly Lys Ile Leu Arg
50 55

$\langle 211 \rangle$ 100

<213> Homo sapiens

Phe Cys Ile Gln Val Pro Gly Phe Val Ser Cys Trp Tyr Ala Ser Pro
1 5 10 15

Asp Arg Pro Ser Cys Ile His Val Thr Arg Leu Tyr Leu Leu Gly Leu
20 25 30

Ser Gln Ile Leu Ala Ser Tyr Ser Ser Ser Cys Pro Asn Ser Ile Leu
35 40 45

Ser Leu Arg Asn Gly Gly Lys Ile Leu Arg Met Phe Leu Val Phe Trp
50 55 60

Leu Leu Gly Ile Tyr Phe Cys His Leu Leu Val Ile Thr Val Leu Thr
65 70 75 80

Asp Ile Lys Glu Asp Ala Ile Ala Pro Arg Thr Leu Pro Trp Pro Lys
145 150 155 160

Gln Gly Val Phe Ser Lys Gln Thr Val Leu Lys Ser His Pro Leu Leu
 130 135 140
 Ser Gln Ser Tyr Glu Leu Arg Ala Glu Leu Leu Gly Arg Gln Pro Val
 145 150 155 160
 Leu Glu Phe Ser Leu Glu Asn Leu Arg Thr Met Asn Thr Ser Gly Gln
 165 170 175
 Thr Ala Leu Pro Gln Ala Pro Val Asn Gly Leu Ala Lys Lys Leu Thr
 180 185 190
 Lys Ser Ser Thr His Ser Asp His Asp Asn Ser Thr Ser Leu Asn Gly
 195 200 205
 Gly Lys Arg Ala Leu Thr Ser Ser Ala Leu His Gly Gly Glu Met Gly
 210 215 220
 Gly Ser Glu Ser Gly Asp Leu Lys Gly Gly Met Xaa Asn Cys Thr Leu
 225 230 235 240
 Pro His Arg Ser Leu Asp Val Glu His Thr Ile Leu Tyr Ser Asn Asn
 245 250 255
 Ser Thr Ala Asn Lys Ser Ser Val Asn Ser Met Glu Gln Pro Ala Leu
 260 265 270
 Gln Gly Ser Ser Arg Leu Ser Pro Gly Thr Asp Ser Ser Ser Asn Leu
 275 280 285
 Gly Gly Val Lys Leu Glu Gly Lys Lys Ser Pro Leu Ser Ser Ile Leu
 290 295 300
 Phe Ser Ala Leu Asp Ser Asp Thr Arg Ile Thr Ala Leu Leu Arg Arg
 305 310 315 320
 Gln Ala Asp Xaa Glu Ser Arg Ala Arg Arg Leu Gln Lys Arg Leu Gln
 325 330 335
 Val Val Gln Ala Lys Gln Val Glu Arg His Ile Gln His Gln Leu Gly
 340 345 350
 Gly Phe Leu Glu Lys Thr Leu Ser Lys Leu Pro Asn Leu Glu Ser Leu
 355 360 365
 Arg Pro Arg Ser Gln Leu Met Leu Thr Arg Lys Ala Glu Ala Ala Leu
 370 375 380
 Arg Lys Ala Ala Ser Glu Thr Thr Thr Ser Glu Gly Leu Ser Asn Phe
 385 390 395 400
 Leu Lys Ser Asn Ser Ile Ser Glu Glu Leu Glu Arg Phe Thr Ala Ser
 405 410 415
 Gly Ile Ala Asn Leu Arg Cys Ser Glu Gln Ala Phe Asp Ser Asp Val
 420 425 430
 Thr Asp Ser Ser Ser Gly Gly Glu Ser Asp Ile Glu Glu Glu Glu Leu

435

440

445

Thr Arg Ala Asp Pro Glu Gln Arg His Val Pro Leu
 450 455 460

<210> 198
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 198
 Ser Val Leu Trp Gly Gly Ser Lys Gly Pro Trp Ser Trp Pro Arg Pro
 1 5 10 15
 Arg His Arg Glu Arg Leu Asp Phe Leu Ser Leu Cys Ala Glu Trp Leu
 20 25 30

Arg Trp Arg Pro Leu Ser Leu Thr Gln Gln Leu
 35 40

<210> 199
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 199
 Lys His Thr Ile Ser Gly Ser Asn Trp Leu Pro His Pro Leu Pro Cys
 1 5 10 15
 Pro Leu Gly Ser Ala Glu Asn Asn Gly Asn Ala Asn Ile Leu Ile Ala
 20 25 30

Ala Asn Gly Thr Lys Arg Lys Ala Ile Ala Ala Glu Asp
 35 40 45

<210> 200
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 200
 Pro Ser Leu Asp Phe Arg Asn Asn Pro Thr Lys Glu Asp Leu Gly Lys
 1 5 10 15
 Leu Gln Pro Leu Val Ala Ser Tyr Leu Cys Ser Asp Val Thr Ser Val
 20 25 30

Pro Ser Lys Glu Ser Leu Lys Leu Gln Gly Val Phe Ser
 35 40 45

<210> 201
 <211> 46
 <212> PRT
 <213> Homo sapiens

Lys Gln Thr Val Leu Lys Ser His Pro Leu Leu Ser Gln Ser Tyr Glu
1 5 10 15

Glu Asn Leu Arg Thr Met Asn Thr Ser Gly Gln Thr Ala Leu
35 40 45

<213> Homo sapiens

Pro Gln Ala Pro Val Asn Gly Leu Ala Lys Lys Leu Thr Lys Ser Ser
1 5 10 15

Ala Leu Thr Ser Ser Ala Leu His Gly Gly Glu Met
35 40

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Gly Gly Ser Glu Ser Gly Asp Leu Lys Gly Gly Met Xaa Asn Cys Thr
1 5 10 15

Asn Ser Thr Ala Asn Lys. Ser Ser Val Asn Ser Met Glu
35 40 45

<213> Homo sapiens

Gln Pro Ala Leu Gln Gly Ser Ser Arg Leu Ser Pro Gly Thr Asp Ser
1 5 10 15

Ser Ser Asn Leu Gly Gly Val Lys Leu Glu Gly Lys Lys Ser Pro Leu
20 25 30

Val Pro Leu
50

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<400> 208
Asn Asn Cys Gly Thr Val Ser Ser Arg Val Phe Ser Phe Trp Arg Gln
 1          5          10          15
Phe Arg Gln Gln Pro Gln Val Val Leu Leu Leu Lys Ile Tyr Met Phe
          20          25          30
Leu Lys Val Leu Val Phe Leu Ile Phe Phe Ser Pro Phe Ser Ser Ser
          35          40          45
Leu Phe Ser Gly Glu Ala Val Arg Gly Arg Gly Ala Gly Leu Gly Leu
          50          55          60
Gly Ile Gly Arg Gly Trp Thr Ser Cys Leu Ser Val Leu Asn Gly Cys
          65          70          75          80
Asp Gly Ala Arg Ser His
          85

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<400> 209  
Ala Lys Val Val Ser Trp Pro Ser Gln Glu Thr Cys Gly Ile Arg Thr  
   1                   5               10                 15
```

<400> 210
Ala Lys Val Val Ser Trp Pro Ser Gln Glu Thr Cys Gly Ile Arg Thr
1 5 10 15
Met Lys Ala Met Leu Gln Cys Phe Arg Phe Tyr Phe Met Arg Leu Phe
20 25 30
Val Phe Leu Leu Thr Ser Gly Lys Met Ile Asp Ser Asp Ser Thr Met
35 40 45
Gln Gly Cys Trp Tyr Gln Pro Glu Pro Tyr Arg Trp Gln Ser Leu Glu
50 55 60
Lys Trp Ser Gln Lys Met Glu Leu

65

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<210> 211
<211> 26
<212> PRT
<213> Homo sapiens
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<400> 211

Leu Pro Ser Gly Thr Phe Leu Lys Arg Ser Phe Arg Ser Leu Pro Glu
1 5 10 15

Leu Lys Asp Ala Val Leu Asp Gln Tyr Ser
20 25

<210> 212

<211> 298

<212> PRT

<213> Homo sapiens

<400> 212

Leu Pro Ser Gly Thr Phe Leu Lys Arg Ser Phe Arg Ser Leu Pro Glu
1 . 5 10 15

Leu Lys Asp Ala Val Leu Asp Gln Tyr Ser Met Trp Gly Asn Lys Phe
20 25 30

Gly Val Leu Leu Phe Leu Tyr Ser Val Leu Leu Thr Lys Gly Ile Glu
35 40 45

Asn Ile Lys Asn Glu Ile Glu Asp Ala Ser Glu Pro Leu Ile Asp Pro
50 55 60

Val Tyr Gly His Gly Ser Gln Ser Leu Ile Asn Leu Leu Leu Thr Gly
65 70 75 80

His Ala Val Ser Asn Val Trp Asp Gly Asp Arg Glu Cys Ser Gly Met
85 90 95

Lys Leu Leu Gly Ile His Glu Gln Ala Ala Val Gly Phe Leu Thr Leu
100 105 110

Met Glu Ala Leu Arg Tyr Cys Lys Val Gly Ser Tyr Leu Lys Ser Pro
115 120 125

Lys Phe Pro Ile Trp Ile Val Gly Ser Glu Thr His Leu Thr Val Phe
130 135 140

Phe Ala Lys Asp Met Ala Leu Val Ala Pro Glu Ala Pro Ser Glu Gln
145 150 155 160

Ala Arg Arg Val Phe Gln Thr Tyr Asp Pro Glu Asp Asn Gly Phe Ile
165 170 175

Pro Asp Ser Leu Leu Glu Asp Val Met Lys Ala Leu Asp Leu Val Ser
180 185 190

Asp Pro Glu Tyr Ile Asn Leu Met Lys Asn Lys Leu Asp Pro Glu Gly

100 105 110 119

Ser Gly Arg Phe Ile Ile Thr Ala Leu Pro Thr Ile Tyr His Cys Lys
115 120 125

Asp Gly Glu Phe Arg Arg Tyr Gln Gly Pro Arg Thr Lys Lys Asp Phe
130 135 140

Ile Asn Phe Ile Ser Asp Lys Glu Trp Lys Ser Ile Glu Pro Val Ser
145 150 155 160

Ser Trp Phe Gly Pro Gly Ser Val Leu Met Ser Ser Met Ser Ala Leu
165 170 175

Phe Gln Leu Ser Met Trp Ile Arg Thr Cys His Asn Tyr Phe Ile Glu
180 185 190

Asp Leu Gly Leu Pro Val Trp Gly Ser Tyr Thr Val Phe Ala Leu Ala
195 200 205

Thr Leu Phe Ser Gly Leu Leu Leu Gly Leu Cys Met Ile Phe Val Ala
210 215 220

Asp Cys Leu Cys Pro Ser Lys Arg Arg Arg Pro Gln Pro Tyr Pro Tyr
225 230 235 240

Pro Ser Lys Lys Leu Leu Ser Glu Ser Ala Gln Pro Leu Lys Lys Val
245 250 255

Glu Glu Glu Gln Glu Ala Asp Glu Glu Asp Val Ser Glu Glu Glu Ala
260 265 270

Glu Ser Lys Glu Gly Thr Asn Lys Asp Phe Pro Gln Asn Ala Ile Arg
275 280 285

Gln Arg Ser Leu Gly Pro Ser Leu Ala Thr Asp Lys Ser
290 295 300

<210> 215
<211> 48
<212> PRT
<213> Homo sapiens

<400> 215
Val Thr Gly Thr Gly Glu Glu Leu Asn Ser Asn Ser Ser Leu Trp Glu
1 5 10 15

Asn Ala Val Leu Ala Pro Pro Gly Val Ala Leu Ala Gly Cys Trp Ser
20 25 30

Pro Arg Ser Ala Pro Ser Gly Leu Trp Gly Gln Gly Trp Val Ser Leu
35 40 45

<210> 216

Arg	Val	Ser	Trp	Asp	Gly	Asn	Pro	Glu	Arg	Tyr	Asp	Ala	Ser	Ile	Leu
1				5					10					15	

Leu Trp Lys Leu Gln Phe Asp Asp Asn Gly Thr Tyr Thr
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<210> 219
 <211> 24
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 <213> Homo sapiens

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 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 219
 Pro Asp Val Asp Gly Val Ile Gly Xaa Ile Arg Leu Ser Val Val His
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Thr Val Arg Phe Ser Glu Ile His
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<210> 220
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 <212> PRT
 <213> Homo sapiens

<400> 220
 Met Ile Ile Ile Val Ile Val Val Val Leu Phe Gln His Tyr Arg Lys
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Lys Arg Trp Ala Glu Arg Ala His Lys Val Val Glu
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<210> 221
 <211> 91
 <212> PRT
 <213> Homo sapiens

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 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 221
 Met Tyr Gly Lys Ser Ser Thr Arg Ala Val Leu Leu Leu Leu Gly Ile
 1 5 10 15

Gln Leu Thr Ala Leu Trp Pro Ile Ala Ala Val Glu Ile Tyr Thr Ser
 20 25 30

Arg Val Leu Glu Ala Val Asn Gly Thr Asp Ala Arg Leu Lys Cys Thr
 35 40 45

Phe Ser Ser Phe Ala Pro Val Gly Asp Ala Leu Thr Val Thr Trp Asn
 50 55 60

03613153 032101

122
Phe Arg Pro Leu Asp Gly Gly Pro Glu Gln Phe Val Phe Tyr Tyr His
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Ile Asp Pro Xaa Pro Thr His Glu Trp Ala Val
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<210> 222
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<212> PRT
<213> Homo sapiens
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<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 222
Gly Thr Arg Asn Ala Val Leu Ala Pro Pro Gly Val Ala Leu Ala Gly
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Cys Trp Ser Pro Arg Ser Ala Pro Ser Gly Leu Trp Gly Gln Gly Trp
20 25 30

Val Ser Leu Met Tyr Gly Lys Ser Ser Thr Arg Ala Val Leu Leu Leu
35 40 45

Leu Gly Ile Gln Leu Thr Ala Leu Trp Pro Ile Ala Ala Val Glu Ile
50 55 60

Tyr Thr Ser Arg Val Leu Glu Ala Val Asn Gly Thr Asp Ala Arg Leu
65 70 75 80

Lys Cys Thr Phe Ser Ser Phe Ala Pro Val Gly Asp Ala Leu Thr Val
85 90 95

Thr Trp Asn Phe Arg Pro Leu Asp Gly Gly Pro Glu Gln Phe Val Phe
100 105 110

Tyr Tyr His Ile Asp Xaa Phe Gln Pro Met Ser Gly Arg Phe Lys Asp
115 120 125

Arg Val Ser Trp Asp Gly Asn Pro Glu Arg Tyr Asp Ala Ser Ile Leu
130 135 140

Leu	Trp	Lys	Leu	Gln	Phe	Asp	Asp	Asn	Gly	Thr	Tyr	Thr	Cys	Gln	Val
145					150					155					160

Lys Asn Pro Pro Asp Val Asp Gly Val Ile Gly Asp Ile Arg Leu Xaa
165 170 175

Val	Val	His	Thr	Val	Arg	Phe	Ser	Glu	Ile	His	Phe	Leu	Ala	Leu	Ala
			180					185					190		

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 100. **References**

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<400> 235
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<400> 236
 Gly Val Trp Tyr Tyr Glu
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<210> 237
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 237
 Thr Ser Gly Val Met Gln Ile Gly
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<210> 238
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 238
 Phe Leu Asn His Glu Gly Tyr Gly Ile Gly Asp Asp
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<210> 239
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 239
 Ala Tyr Asp Gly Cys Arg Gln
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<210> 240
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 240
 His Ala Ser Ala Asp Gly Gly Arg Thr Arg Gly Trp Thr Pro Thr
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<210> 241

<400> 241

Pro Pro Arg Gly Pro Ala Ser Glu Leu Leu Leu Leu Arg Leu Leu Leu
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Glu Leu Thr Arg Cys Leu Ala Glu Val Val Thr Glu Val Leu Thr Val
50 55 60

Cys Gly Thr Glu Pro His Gly Cys Ala Ser Thr Glu Glu Lys Gly Leu
85 90 95

Gln Glu Val Arg Asp Glu Glu Glu Glu Glu Val Ala Glu Arg Thr His
115 120 125

Leu His Gln Glu Glu Asp Glu Glu Glu Glu Lys Glu Glu Arg Lys Arg
145 150 155 160

Gly Pro Met Glu Thr Phe Glu Asp Leu Trp Gln Arg His Leu Glu Asn
165 170 175

Gly Gly Asp Leu Gln Lys Arg Val Ala Glu Lys Ala Ser Asp Lys Glu
180 185 190

Thr Ala Gln Phe Gln Ala Glu Glu Lys Gly Val Arg Val Leu Gly Gly
195 200 205

Asp Arg Ser Leu Trp Gln Gly Ala Glu Arg Gly Gly Gly Glu Arg Arg
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Glu Asp Leu Pro His His His His His His His Gln Pro Glu Ala Glu
225 230 235 240

Pro Arg Gln Glu Lys Glu Glu Ala Ser Glu Arg Glu Val Ser Arg Gly
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Met Lys Glu Glu His Gln His Ser Leu Glu Ala Gly Leu Met Met Val
260 265 270

Ser Gly Val Thr Thr His Ser His Arg Cys Trp Pro Cys Thr Thr Arg
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128

Ser Ile Thr Ser Gly Ser Gln Trp Pro Arg Leu Thr Pro Arg Leu Ala
290 295 300

Asn Asn Phe Arg Ala Arg Pro Leu Pro Tyr Thr Ser Thr Leu Leu Tyr
305 310 315 320

Gly Leu Gln Gln Pro Arg Trp His His Cys Thr Glu Ala Ser His His
325 330 335

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<211> 23

<212> PRT

<213> Homo sapiens

<400> 242

Ala Phe Asp Glu Gly Asn Lys Met Glu Leu Arg Lys Asn Thr Ile Leu
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Ile Ile Tyr Tyr Ile Ser Arg
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<210> 243

<211> 78

<212> PRT

<213> Homo sapiens

<400> 243

Ala Phe Asp Glu Gly Asn Lys Met Glu Leu Arg Lys Asn Thr Ile Leu
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Ile Ile Tyr Tyr Ile Ser Arg Met Leu Phe Leu Arg Ser Ile Leu Trp
20 25 30

Leu Ser Ser Leu Phe Phe Cys His Phe Val Pro Thr Ser His Ser Leu
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Gly Phe Gln Asn Ile Thr Ser Val Tyr Asn Ala Thr Leu Gln Gln Thr
50 55 60

Val Phe Gln His Asp Ser Lys Thr Val Thr Thr Cys Phe Thr
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<210> 244

<211> 25

<212> PRT

<213> Homo sapiens

<400> 244

Gly Thr Arg Trp Lys Leu Phe Gln Gln Arg Phe Leu Tyr Arg Gly Asn
1 5 10 15

Arg Glu Phe Gln Asn Lys Lys Leu Ser
20 25

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<210> 245
 <211> 100
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 <213> Homo sapiens

<400> 245

Gly Thr Arg Trp Lys Leu Phe Gln Gln Arg Phe Leu Tyr Arg Gly Asn
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Arg Glu Phe Gln Asn Lys Lys Leu Ser Met Phe Cys Val Phe Ile Leu
 20 25 30

Thr Phe Phe Met Val Phe Asn Leu Trp Leu Ala Ala Thr Val Tyr His
 35 40 45

Val Tyr Gly Thr Cys Lys Lys Val Leu Asp Ile Gln Ile Leu Arg Asp
 50 55 60

Glu Ile Thr Phe Thr Tyr Lys Asn His Phe Tyr Cys Gly Leu Thr Ala
 65 70 75 80

Leu Ser Ser Arg Ile Leu Asn Asp Ile Thr Asn Ile Leu His Val Ile
 85 90 95

Cys Ser Phe Glu
 100

<210> 246
 <211> 10
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<400> 246

Gly Thr Ser Ala Ile Pro Val Phe Ala Ala
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<210> 247
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 247

Leu Asp Phe Ile Leu Ser Ser Trp Leu Ser Thr Arg Gln Pro Met Lys
 1 5 10 15

Asp Ile Lys Gly Ser Trp Thr Gly Lys Asn Arg Val Gln Asn Pro Tyr
 20 25 30

Ser His Gly Asn Ile Val Lys Asn Cys Cys Glu Val Leu Cys Gly Pro
 35 40 45

Leu Pro Pro Ser Val Leu Asp Arg Arg Gly Ile Leu Pro Leu Glu Glu
 50 55 60

Ser Gly Ser Arg Pro Pro Ser Thr Gln Glu Thr Ser Ser Ser Leu Leu

335

Ala Glu Ala Glu Lys
385

<210> 252

<211> 184

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Met Leu Phe Leu Phe Ser Met Ala Thr Leu Leu Arg Thr Ser Phe Ser
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Asp Pro Gly Val Ile Pro Arg Ala Leu Pro Asp Glu Ala Ala Phe Ile
20 25 30

Glu Met Glu Ile Glu Ala Thr Asn Gly Ala Val Pro Gln Gly Gln Arg
35 40 45

Pro Pro Pro Arg Ile Lys Asn Phe Gln Ile Asn Asn Gln Ile Val Lys
50 55 60

Leu Lys Tyr Cys Tyr Thr Cys Lys Ile Phe Arg Pro Pro Arg Ala Ser
65 70 75 80

His Cys Ser Ile Cys Asp Asn Cys Val Glu Arg Phe Asp His His Cys
85 90 95

Pro	Trp	Val	Gly	Asn	Cys	Val	Gly	Lys	Arg	Asn	Tyr	Arg	Tyr	Phe	Tyr
			100					105					110		

Leu Phe Ile Leu Ser Leu Ser Leu Leu Thr Ile Tyr Val Phe Ala Phe
115 120 125

Asn Ile Val Tyr Val Ala Leu Lys Ser Leu Lys Ile Gly Phe Leu Glu
130 135 140

Thr	Leu	Lys	Gly	Asn	Ser	Trp	Asn	Cys	Ser	Arg	Ser	Pro	His	Leu	Leu
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Leu Tyr Thr Leu Val Arg Arg Gly Thr Asp Trp Ile Ser Tyr Phe Pro
165 170 175

Arg Gly Ser Gln Pro Asp Asn Gln
180

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Leu Leu Phe Asn Thr Ser Lys Lys Lys Leu Met Thr Phe Ser Leu Asp
 50 55 60

Ser Leu Leu Ser Pro Ile Ser Ile Pro Thr Ala Leu Leu Phe Gly Ser
 65 70 75 80

Pro Pro Pro Pro Pro Ser His Arg Gly Tyr Gly Val Gly Ser Ala Pro
 85 90 95

Leu Lys Glu Lys Gln Met Lys Glu Leu Val Pro Pro Arg Arg Glu Cys
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Thr Val Gln Gly Gln Pro Trp Gln Gly Pro Ser Leu Pro Gly Pro Ala
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Glu Leu Gly His Arg Pro Gly Thr Arg Leu Gly Val Glu Cys Asp Gly
 130 135 140

Glu Trp Cys Pro Arg Ser Cys Phe Trp Glu Leu Leu Gly Pro Pro Tyr
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Leu Lys Cys Ser Gln Pro Ser Pro Ile Pro Pro Leu Asp Gly Thr Gln
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Thr Ser Ala Glu Arg Gly Arg Gly Xaa Ala Leu Lys
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Pro Lys Ala Gln Arg Val Gln Gly Gln Asn Gly Asn His Ser Ser Asp
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Ser Glu Gly Ser Phe Ser Leu Leu Cys Leu Gln Leu Phe Ser Lys Phe
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Ala Val Val
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<213> Homo sapiens

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Gly Ser Pro Pro Pro Pro
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<211> 24

<212> PRT

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<400> 258

Glu Leu Val Pro Pro Arg Arg Glu Cys Thr Val Gln Gly Gln Pro Trp
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Gln Gly Pro Ser Leu Pro Gly Pro
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<211> 25

<212> PRT

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Arg Leu Gly Val Glu Cys Asp Gly Glu Trp Cys Pro Arg Ser Cys Phe
 1 5 10 15

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Trp Glu Leu Leu Gly Pro Pro Tyr Leu
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Arg Pro Ser Arg Leu Arg Arg Arg Leu Lys Ala Pro Phe Ser Ala Trp
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Lys Thr Arg Leu Ala Gly Ala Lys Gly Gly Leu Ser Val Gly Asp Phe
20 25 30

Arg Lys Val Leu
35

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<400> 262
Trp Pro Ser Gly Leu Gly Arg Thr Ser Ser Leu Arg Gly Ser Glu Ala
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20 25 30

Ser Pro Ala Ser Cys Gly Gly Cys Phe Ser Pro Thr Arg Ala Ser Ala
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Pro Ala Ala Gly Gly
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Gly Pro Pro Pro Ala Leu Gly Ser Pro Ala Ser Cys Gly

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<210> 264
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<400> 264

Lys Pro His Leu Gly Pro Arg Gly Ser Ile Glu Pro Ser Gln Ala Ser
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Ser Arg Asn Pro Gly Leu Val Thr Glu Gln Ser Cys Leu Gln Gly Pro
 20 25 30

Ser Gly His Arg Ala Trp Ala Gly His His Leu Ser Glu Gly Gln Arg
 35 40 45

Leu Arg Ala Gly Ala Ala Gln Gln Val Thr Ala Leu His Gln Leu Trp
 50 55 60

Val Leu Pro His His Val Val Ala Ala Phe Pro Pro Gly Pro Gln
 65 70 75 80

Leu Gln Gln Leu Val Gly Glu Leu Ser Thr Ala Tyr Ser Lys His Val
 85 90 95

Leu Arg His Ala Glu His
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 <211> 30
 <212> PRT
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Ser Arg Asn Pro Gly Leu Val Thr Glu Gln Ser Cys Leu Gln Gly Pro
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Ser Gly His Arg Ala Trp Ala Gly His His Leu Ser Glu Gly
 20 25 30

<210> 266
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 <212> PRT
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<400> 266

Thr Ala Leu His Gln Leu Trp Val Leu Pro His His Val Val Ala Ala
 1 5 10 15

Phe Pro Pro Pro Gly Pro Gln Leu Gln Gln Leu Val Gly Glu Leu Ser
 20 25 30

Thr

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210

215

220

Gly Arg Leu Thr Met Gly Val Leu His Ser Lys Phe Trp Val Val Asp
225 230 235 240

Gly Arg His Ile Tyr Met Gly Ser Ala Asn Met Asp Trp Arg Ser Leu
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Thr Gln Val Lys Glu Leu Gly Ala Val Ile Tyr Asn Cys Ser His Leu
260 265 270

Gly Gln Asp Leu Glu Lys Thr Phe Gln Thr Tyr Trp Val Leu Gly Val
275 280 285

Pro Lys Ala Val Leu Pro Lys Thr Trp Pro Gln Asn Phe Ser Ser His
290 295 300

Phe Asn Arg Phe Gln Pro Phe His Gly Leu Phe Asp Gly Val Pro Thr
305 310 315 320

Thr Ala Tyr Phe Ser Ala Ser Pro Pro Ala Leu Cys Pro Gln Gly Arg
325 330 335

Thr Arg Asp Leu Glu Ala Leu Leu Ala Val Met Gly Ser Ala Gln Glu
340 345 350

Phe Ile Tyr Ala Ser Val Met Glu Tyr Phe Pro Thr Thr Arg Phe Ser
355 360 365

His Pro Pro Arg Tyr Trp Pro Val Leu Asp Asn Ala Leu Arg Ala Ala
370 375 380

Ala Phe Gly Lys Gly Val Arg Val Arg Leu Leu Val Gly Cys Gly Leu
385 390 395 400

Asn Thr Asp Pro Thr Met Phe Pro Tyr Leu Arg Ser Leu Gln Ala Leu
405 410 415

Ser Asn Pro Ala Ala Asn Val Ser Val Asp Val Lys Val Phe Ile Val
420 425 430

Pro Val Gly Asn His Ser Asn Ile Pro Phe Ser Arg Val Asn His Ser
435 440 445

Lys Phe Met Val Thr Glu Lys Ala Ala Tyr Ile Gly Thr Ser Asn Trp
450 455 460

Ser Glu Asp Tyr Phe Ser Ser Thr Ala Gly Val Gly Leu Val Val Thr
465 470 475 480

Gln Ser Pro Gly Ala Gln Pro Ala Gly Ala Thr Val Gln Glu Gln Leu
485 490 495

Arg Gln Leu Phe Glu Arg Asp Trp Ser Ser Arg Tyr Ala Val Gly Leu
500 505 510

Asp Gly Gln Ala Pro Gly Gln Asp Cys Val Trp Gln Gly
515 520 525

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<210> 270
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 270
 Gln Gly Arg Thr Pro Arg Asp Ala Glu Ala Ser Leu Glu Ser Ser Ser
 1 5 10 15
 Gly Pro His Met Ala Met Leu His
 20

<210> 271
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 271
 Gly Ser Ala Gly Cys Ala Val Ala Gly Leu Arg Gly Ser Tyr Leu Pro
 1 5 10 15
 Pro Val Ala Ser Ala Pro Ser
 20

<210> 272
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 272
 Ala Gln Gly Arg Ala Gln Val Leu Gly Ala Trp Leu Pro Ala Gln Leu
 1 5 10 15
 Gly Ser Pro Trp Lys Gln Arg Ala Arg Gln Gln Arg Asp
 20 25

<210> 273
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 273
 Pro Ser Ala Ala Gly Ser Pro Ser Ala Gln Pro Leu Gly Gln Ala Trp
 1 5 10 15
 Leu Gln Leu Leu Asp
 20

<210> 274
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 274

<210> 279
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 279
 Thr Asp Pro Thr Met Phe Pro Tyr Leu Arg Ser Leu Gln Ala Leu Ser
 1 5 10 15
 Asn Pro Ala Ala Asn Val Ser Val Asp Val Lys Val Phe
 20 25

<210> 280
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 280
 Asp Val Lys Val Phe Ile Val Pro Val Gly Asn His Ser Asn Ile Pro
 1 5 10 15
 Phe Ser Arg Val Asn His Ser Lys Phe Met Val Thr Glu Lys Ala
 20 25 30

<210> 281
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 281
 Gln Leu Arg Gln Leu Phe Glu Arg Asp Trp Ser Ser Arg Tyr Ala Val
 1 5 10 15
 Gly Leu Asp Gly Gln Ala Pro Gly
 20

<210> 282
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 282
 Ala Glu Gly Leu Gln Ser Ala Ala Gly Ile Arg Ile Asp Thr Lys Ala
 1 5 10 15
 Gly Pro Pro Glu Met Leu Lys Pro Leu Trp Lys Ala Ala Val Ala Pro
 20 25 30

Thr Trp Pro Cys Ser Met Pro Pro Arg Arg Pro Trp Asp Arg Glu Ala
 35 40 45

Gly Thr Leu Gln Val Leu Gly Ala Leu Ala Val Leu Trp Leu Gly Ser
 50 55 60

Val Ala Leu Ile Cys Leu Leu Trp Gln Val Pro Arg Pro Pro Thr Trp
 65 70 75 80

Gly Gln Val Gln Pro Lys Asp Val Pro Arg Ser Trp Glu His Gly Phe
85 90 95

Gln Pro Ser Leu Gly Ala Pro Gly Ser Arg Gly Pro Gly Ser Arg Gly
100 105 110

Thr Pro Ala Ser Leu Ser Leu Trp Lys Ala Ser Pro Arg Thr Cys His
115 120 125

Leu Gln Pro Ala Ala Pro Leu Pro Ser Leu Trp Ala Arg Pro Gly Cys
130 135 140

Ser Cys Trp Thr Leu Pro Arg Arg Ala Ser Thr Trp Leu His Thr Thr
145 150 155 160

Gly Pro Ser Gln Gly Leu Thr Ser Gly Ser Thr Thr Arg Leu Pro Ser
165 170 175

Trp Glu Arg Leu Phe Cys Arg Ser Cys Ser Ser Cys Trp Ala Gly Thr
180 185 190

Phe Pro Trp Leu Trp Pro Pro Ala Ala Arg His Trp Pro Gly His Pro
195 200 205

Pro Thr Cys Arg Phe Trp Leu Pro Glu Val Pro Met Tyr Asp Arg Cys
210 215 220

Pro Trp Gly Gly Ser Pro Trp Val Phe Cys Thr Pro Asn Ser Gly Leu
225 230 235 240

Trp Met Asp Gly Thr Tyr Thr Trp Ala Val Pro Thr Trp Thr Gly Gly
245 250 255

Leu

<210> 283

<211> 10

<212> PRT

<213> Homo sapiens

<400> 283

Lys Gln Pro Arg Gln Leu Phe Asn Ser Leu
1 5 10

<210> 284

<211> 34

<212> PRT

<213> Homo sapiens

<400> 284

Thr Gln Ser Thr Gly Leu Glu Ser Ser Cys Ser Glu Ala Pro Gly Leu
1 5 10 15

Pro Leu Thr Phe Leu Val Ala Ala Thr Gln Arg Ala Leu Glu Trp Thr
20 25 30

Gln Gly

<210> 285

<211> 100

<212> PRT

<213> Homo sapiens

<400> 285

Thr	Gln	Ser	Thr	Gly	Leu	Glu	Ser	Ser	Cys	Ser	Glu	Ala	Pro	Gly	Leu
1				5					10					15	

Pro	Leu	Thr	Phe	Leu	Val	Ala	Ala	Thr	Gln	Arg	Ala	Leu	Glu	Trp	Thr
			20					25					30		

Gln	Gly	Met	Leu	Leu	Ile	Ser	Ala	Val	Gln	Val	Phe	Ile	Leu	Leu	Ser
		35					40					45			

Pro	Ser	Phe	Tyr	Leu	Ile	Leu	Tyr	Leu	Leu	Arg	Pro	Gly	Gly	Thr	Gly
	50					55					60				

Arg	Gly	Leu	Glu	Pro	Ile	Cys	Pro	Ala	Ala	Glu	Trp	Gly	Gly	Trp	Arg
65					70					75					80

Asp	Gly	Tyr	Leu	Trp	Leu	Gln	Tyr	Gln	Glu	Pro	Thr	Val	Ser	Leu	Asp
				85					90					95	

Asn	Trp	Gly	Asn
			100

<210> 286

<211> 228

<212> PRT

<213> Homo sapiens

<400> 286

Asp	Thr	Lys	Asn	Cys	Gly	Gln	Glu	Leu	Ala	Asn	Leu	Glu	Lys	Trp	Lys
1				5					10					15	

Glu	Gln	Asn	Arg	Ala	Lys	Pro	Val	His	Leu	Val	Pro	Arg	Arg	Leu	Gly
		20						25					30		

Gly	Ser	Gln	Ser	Glu	Thr	Glu	Val	Arg	Gln	Lys	Gln	Gln	Leu	Gln	Leu
		35					40					45			

Met	Gln	Ser	Lys	Tyr	Lys	Gln	Lys	Leu	Lys	Arg	Glu	Glu	Ser	Val	Arg
	50					55				60					

Ile	Lys	Lys	Glu	Ala	Glu	Glu	Ala	Glu	Leu	Gln	Lys	Met	Lys	Ala	Ile
65					70					75					80

Gln	Arg	Glu	Lys	Ser	Asn	Lys	Leu	Glu	Glu	Lys	Lys	Arg	Leu	Gln	Glu
				85					90					95	

Asn	Leu	Arg	Arg	Glu	Ala	Phe	Arg	Glu	His	Gln	Gln	Tyr	Lys	Thr	Ala
			100					105						110	

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<400> 289
Glu Glu Ala Glu Leu Gln Lys Met Lys Ala Ile Gln Arg Glu Lys Ser

1

5

146

10

15

Asn Lys Leu Glu Glu
20

<210> 290

<211> 22

<212> PRT

<213> Homo sapiens

<400> 290

His Gln Gln Tyr Lys Thr Ala Glu Phe Leu Ser Lys Leu Asn Thr Glu
1 5 10 15

Ser Pro Asp Arg Ser Ala
20

<210> 291

<211> 23

<212> PRT

<213> Homo sapiens

<400> 291

Leu Leu Glu Leu Lys Arg Gln Gln Gln Glu Gln Glu Arg Ala Lys Ile
1 5 10 15

His Gln Thr Glu His Arg Arg
20

<210> 292

<211> 22

<212> PRT

<213> Homo sapiens

<400> 292

Leu Asp Arg Leu Gln Gly Lys Ser Gln Pro Gly Gly Leu Glu Gln Ser
1 5 10 15

Gly Gly Cys Trp Asn Met
20

<210> 293

<211> 13

<212> PRT

<213> Homo sapiens

<400> 293

Leu Phe Ser Gly Glu Cys Leu Gln Arg Leu Trp Val Arg
1 5 10

<210> 294

<211> 79

<212> PRT

<213> Homo sapiens

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<400> 294

Arg His Glu Leu Val Pro Leu Val Pro Gly Leu Val Asn Ser Glu Val
 1 5 10 15

His Asn Glu Asp Gly Arg Asn Gly Asp Val Ser Gln Phe Pro Tyr Val
 20 25 30

Glu Phe Thr Gly Arg Asp Ser Val Thr Cys Pro Thr Cys Gln Gly Thr
 35 40 45

Gly Arg Ile Pro Arg Gly Gln Glu Asn Gln Leu Val Ala Leu Ile Pro
 50 55 60

Tyr Ser Asp Gln Arg Leu Arg Pro Arg Arg Thr Lys Leu Tyr Val
 65 70 75

<210> 295

<211> 23

<212> PRT

<213> Homo sapiens

<400> 295

Pro Gly Leu Val Asn Ser Glu Val His Asn Glu Asp Gly Arg Asn Gly
 1 5 10 15

Asp Val Ser Gln Phe Pro Tyr
 20

<210> 296

<211> 26

<212> PRT

<213> Homo sapiens

<400> 296

Thr Cys Pro Thr Cys Gln Gly Thr Gly Arg Ile Pro Arg Gly Gln Glu
 1 5 10 15

Asn Gln Leu Val Ala Leu Ile Pro Tyr Ser
 20 25

<210> 297

<211> 255

<212> PRT

<213> Homo sapiens

<400> 297

Arg His Glu Leu Val Pro Leu Val Pro Gly Leu Val Asn Ser Glu Val
 1 5 10 15

His Asn Glu Asp Gly Arg Asn Gly Asp Val Ser Gln Phe Pro Tyr Val
 20 25 30

Glu Phe Thr Gly Arg Asp Ser Val Thr Cys Pro Thr Cys Gln Gly Thr
 35 40 45

